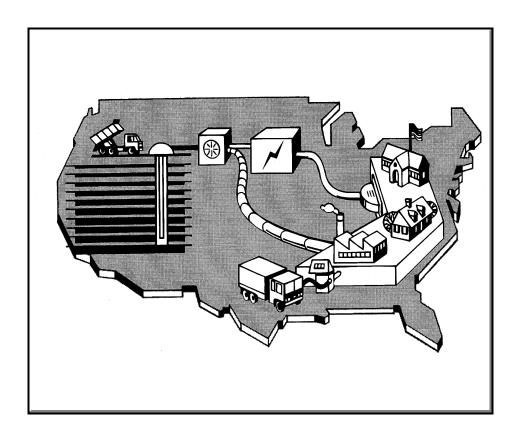


Landfill Gas-to-Energy Project Opportunities

Landfill Profiles for the State of Pennsylvania





EPA Landfill Methane Outreach Program



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities,

municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-toenergy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

Data Sources

- EPA-ORD Landfill Gas Utilization-Survey (Thorneloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- · Project developers, landfill owners, and operators
- · State and local records
- · Survey of Landfill Gas Generation Potential (EPRI, 1992)
- U.S. Landfill Directory (SWANA, 1992)

Landfill Classification

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project, ¹ Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

Landfill Categorizes

Current Project:

 Landfill with operational LFGTE project or landfill with LFGTE project under construction.

Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-inplace.²

Shutdown:

· Landfill with shutdown LFGTE project.

Other

 Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

Unknown WIP:

 Landfill with insufficient data to determine the waste-inplace

State Summary

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

² By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



¹ Current projects illustrate the wide range of successful project development options.

Exhibit 1: Pennsylvania MSW Landfill Summary

Category	No. of	Est. Capac	ity Potential	Est. CH4	Methane R		CO2 Equivalent of CH4 Reduction (tons/yr)		
	Landfills	Electricity (MW)	Gas Capacity (mmBtu/hr)	Generation (mmscf/d)	(tons	s/yr)			
					Potential	Current	Potential	Current	
Current	20	95	947	30	175,162	83,641	3,678,404	1,756,453	
Candidate	18	45	448	14	82,881	0	1,740,503	0	
Other	18	25	253	8	46,783	0	982,441	0	
Unknown WIP	25								
Total	81	165	1,647	53	304,826	83,641	6,401,348	1,756,453	

Exhibit 2: Potential Pennsylvania Emissions Avoided by Fossil Fuel Displacement

Category		Electricity Generation Project						Direct Use Project					
	C	CO2 (tons/yr)		SO2 (tons/yr)		CO2 (tons/yr)			SO2 (tons/yr)				
	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	
Current	747,444	613,469	412,505	4,724	3,949	0	527,477	432,929	291,107	4,800	2,523	2	
Candidate	354,385	290,863	195,580	2,240	1,872	0	249,585	204,848	137,743	2,271	1,194	1	
Other	200,476	164,542	110,641	1,267	1,059	0	140,881	115,629	77,750	1,282	674	1	
Unknown WIP													
Total	1,302,306	1,068,874	718,726	8,232	6,880	0	917,943	753,406	506,600	8,352	4,391	4	

Exhibit 3: Index of Landfills in Pennsylvania

Category	Landfill Name		WIP		Landfill	LFG Collected	LFG	Status of LFGTE
Category	Landilli Name				Operating in	LFG Collected	Utilization	Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	1998		Project	Troject
Current	Amity LF		✓			✓	✓	Operational
Current	Colebrookdale LF		✓					Construction
Current	Conshocken LF		✓			✓	✓	Operational
Current	East Pennsboro LF	✓				✓	✓	Operational
Current	Empire SLF			✓		✓	✓	Operational
Current	Greater Lebanon Refuse Authority LF	✓				✓	✓	Operational
Current	GROWS LF			✓	✓	✓	✓	Operational
Current	Keystone SLF			✓		✓	✓	Operational
Current	Lake View LF			✓		✓	✓	Operational
Current	Lanchester LF	✓				✓		Construction
Current	Lycoming County LF			✓	✓	✓	✓	Operational
Current	Mazzaro LF		✓		✓	✓	✓	Operational
Current	Modern LF			✓	✓	✓	✓	Operational
Current	Monroeville LF		✓			✓		Construction
Current	Pioneer Crossing LF	✓			✓	✓	✓	Operational
Current	Pottstown LF			✓	✓	✓	✓	Operational
Current	South Park Landfill							Construction
Current	Tullytown LF			✓		✓	✓	Operational
Current	Valley LF		✓		✓			Construction
Current	Westmoreland County Landfill							Construction
Candidate	Arden Landfill							Planned
Candidate	Bradford County LF	✓			✓	✓		Potential
Candidate	CBF, Incorporated LF	~			✓	✓		Planned
Candidate	Chrin Brothers LF		V		✓			Unknown
Candidate	County LF	✓			✓	✓		Planned
Candidate	Frey Farm LF	~			✓			Unknown
Candidate	Grand Central SLF			✓	✓	✓		Unknown
Candidate	Greentree LF			✓		✓		Potential
Candidate	Imperial LF			V		✓		Planned
Candidate	Mountain View Reclamation			V				Potential
Candidate	Northwest SLF		V		✓	✓		Unknown
Candidate	Pine Grove LF	✓						Potential
Candidate	RCC LF			V	✓	✓		Unknown
Candidate	Rosencrantz LF							Planned
Candidate	Southern Alleghenies LF			<u> </u>		✓		Planned
Candidate	Western Berks Refuse Authority LF	✓			✓			Unknown
Candidate	Y&S SLF	✓			✓	✓		Unknown
Candidate	York County SLF	✓						Unknown
Other	Adams Sanitation Company, Inc.			✓				Unknown

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Exhibit 3: Index of Landfills in Pennsylvania

0-1	Law Will Manage			Landinis in			1.50	Ctatus of LEOTE
Category	Landfill Name		WIP		Landfill Operating in	LFG Collected	LFG Utilization	Status of LFGTE Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons	1998		Project	Project
Other	Arden LF		✓			✓		Unknown
Other	Bedford Fulton Huntingdon Solid Waste	>						Unknown
Other	Bethlehem City LF	>						Unknown
Other	Christman LF	>						Unknown
Other	Cumberland County LF	>				✓		Unknown
Other	Dauphin Meadows LF	>				✓		Unknown
Other	Drumore Township SLF	>						Unknown
Other	Fred D. Thebes LF	>						Unknown
Other	J.J. Brunner LF	>						Unknown
Other	Laurel Highlands LF	>				✓		Unknown
Other	McKean County LF	>				✓		Unknown
Other	Mifflin County Solid Waste Authority LF	>				✓		Unknown
Other	Pellegrene LF	>						Unknown
Other	R&A Bender, Incorporated	>						Unknown
Other	Sanitary LF	>						Unknown
Other	Seccra LF	>				✓		Unknown
Other	Wayne Township LF	>				✓		Unknown
Unknown WIP	Center Township LF							Unknown
Unknown WIP	CES							Unknown
Unknown WIP	Conestoga LF							Unknown
Unknown WIP	Creswell LF							Unknown
Unknown WIP	Ford City LF							Unknown
Unknown WIP	Guilford Township LF							Unknown
Unknown WIP	Kelly Run SLF					✓		Unknown
Unknown WIP	Kennedy LF							Unknown
Unknown WIP	Keystone Sanitation Company, Incorpo							Unknown
Unknown WIP	Kittanning Borough SLF					✓		Unknown
Unknown WIP	Lasky LF							Unknown
Unknown WIP	Lewiston LF							Unknown
Unknown WIP	Loyalhanna LF							Unknown
Unknown WIP	M.C. Arnoni LF							Unknown
Unknown WIP	Marilungo Disposal Service							Unknown
Unknown WIP	MAWC SLF							Unknown
Unknown WIP	Mon Valley SLF							Unknown
Unknown WIP	Morris Township LF							Unknown
Unknown WIP	Mostoller LF							Unknown
Unknown WIP	Richard's LF							Unknown
Unknown WIP	Seneca				✓			Unknown
Unknown WIP	Tioga County LF							Unknown

Exhibit 3: Index of Landfills in Pennsylvania

Category	Landfill Name		WIP		Landfill	LFG Collected	LFG	Status of LFGTE
		<2.5 million tons			Operating in 1998		Utilization Project	Project
Unknown WIP	Vogel Disposal Service Incorporated							Unknown
Unknown WIP	Wach's LF							Unknown
Unknown WIP	Wade LF							Unknown

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			Amity LF	1			Landfill Category	: Current
		A. G	ENERAL LANDFILL		ION		<u> </u>	
Landfill Owner:	Taylor F	Energy Partners		Annual Accept	tance Rate (1	tons):		
Landfill Owner Type:	Private	anergy randiers		ear Annual A			ed:	
Alternative Landfill Name:	Taylor			Design Capaci	-	T		
City:	Taylor			Acres Currentl	-	d (acres):		97
County:	Lackaw	anna		Average Depth	-	,		27
State:	PA			1994 Waste-ir		s):		3,000,000
Year Open:	1973		1	998 Waste-in	-Place (tons	s):		3,000,000
Year Closed:	1990							
]	B. LANDFILL GAS CO	LLECTION				
Estimated Methane Generation	on (mmscf.	%d):		1.19				
LFG Collection System Statu	is:		Op	erational				
Current LFG Collected (mms	scf/d):			0.7				
Collection and Treatment Sys	stem Requ	ired Under NSF	PS/EG:	No				
		(C. LANDFILL GAS UT	TLIZATION				
Current Utilization:								
Utilization System Statu	ıs:	Operational						
Utilization System Type		Reciprocatin	g Engine					
Utilization System Start		1988						
Electric Utility Provider	(s):							
Natural Gas Provider(s):	•							
Energy Purchaser(s):		Pennsylvani	aPower and Light					
Capacity:		Electrici	ty Generation Project (M	(W)	OR T	Direct Use	Project (mmBtu/l	nr)
Estimated Potential Cap	pacity:			4				37
Current Capacity:				2.0				15
Planned Capacity:								
Utilities in County:		Blakely Bor	ough Mun Light Plant; C	laverack Rura	l Elec Coop	Inc; Duque	esne Light Compar	ıy; Olyph
		D. ENVII	RONMENTAL BENEF	ITS OF UTII	LIZATION			
			Pai	tential			Current	
Methane Reduction (tons/yr):	•		101	Critici	6,853		Current	2,698
CO2 Equivalent of CH4 Redu		ıs/vr)·		1	143,913			56,660
CO2 Equivalent of CITY Read					13,713			
Emissions Avoided by Fossil	Fuel Disp	lacement:	Electricity Gene	eration Projec	rt		Direct Use Proje	ct
			CO2 (tons/yr)	SO2 (tor	is/yr)	CO2 ((tons/yr) S	O2 (tons/yr)
		Coal:	29,203		185		20,637	188
		Fuel Oil:	23,969		154		16,938	99
	N 7.							
	INC	atural Gas:	16,117		0		11,389	0
		T 10'11	E. CONTACT INFO	RMATION		T 10'11		
		Landfill	Jwner			Landfill	Operator	
Contact Name:								
Mailing Address:								
Phone Number:								
1 none mulliber.								
Fax Number:								
* Itallicized indicates values e	estimated l	by FPA	Dag	cember 5, 199	<u> </u>	Stat	te: PA Page	a. 1

^{*} Itallicized indicates values estimated by EPA.

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			Arden Landfill		Landfill Categor	v: Candidate
		A. G	ENERAL LANDFILL INFO	ORMATION	Zunajin curegor	, Canaraute
Landfill Owner:	USA W	/aste	Annu	al Acceptance Rate		1008
Landfill Owner Type:	Private			Annual Acceptance	Rate Reported:	1998
Alternative Landfill N		-4		n Capacity (tons):	- 4 ().	
City:	Washin	igton		Currently Landfille	ed (acres):	
County:	D.			nge Depth (feet):	`	
State:	PA			Waste-in-Place (to		
Year Open:			1998	Waste-in-Place (ton	is):	
Year Closed:		T	DIANDELLI CACCOLLI	COLON		
		J	B. LANDFILL GAS COLLI	ECTION		
Estimated Methane Ge	eneration (mmsc	f/d):				
LFG Collection System	n Status:					
Current LFG Collected	d (mmscf/d):					
Collection and Treatm	ent System Requ	uired Under NSF	PS/EG:	No		
			C. LANDFILL GAS UTILIZ	ZATION		
Current Utilization: Utilization Syster Utilization Syster Utilization Syster Electric Utility Pr Natural Gas Prov	n Type: n Start Year: rovider(s): ider(s):	Planned Direct Thern 1997	nal			
Energy Purchaser Capacity:	(S):	Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmBtu/	'hr)
Estimated Potentic Current Capacity: Planned Capacity	:					
Utilities in County:						
		D. ENVIR	RONMENTAL BENEFITS	OF UTILIZATION	N	
		2.2.				
Methane Reduction (to CO2 Equivalent of CH	- ·	ns/yr):	Potentia	il	Current	
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generation CO2 (tons/yr)	on Project SO2 (tons/yr)	Direct Use Proje CO2 (tons/yr)	ect SO2 (tons/yr)
		Coal:				
		Fuel Oil:				
	N	atural Gas:				
			E. CONTACT INFORMA	ATION		
		Landfill (Owner		Landfill Operator	
Contact Name:						
Mailing Address:						
Phone Number:				412-222-3272		
Fax Number:						
				1		



		Bradford Coun	ty LF		Landfill Category	: Candidate	
	A. G	ENERAL LANDFILL I	-	ION			
Landfill Owner: Non	rthern Tier SW Auth	ority A	nnual Accep	tance Rate (tons):	84,586	
Landfill Owner Type: Pub	olic	Y	ear Annual A	Acceptance I	Rate Reported:	1993	
Alternative Landfill Name:		Γ	esign Capaci	ity (tons):		1,443,225	
City: But	lington	A	cres Current	ly Landfilled	d (acres):	64	
County: Bra	dford	A	verage Deptl	h (feet):			
State: PA]	1993 Waste-ii	n-Place (ton	s):	1,197,066	
Year Open: 198	3	1	998 Waste-in	-Place (tons	s):	1,619,996	
Year Closed: 200	00						
	I	B. LANDFILL GAS CO	LLECTION	I			
Estimated Methane Generation (m	mscf/d):		0.83				
LFG Collection System Status:		Op	erational				
Current LFG Collected (mmscf/d):							
Collection and Treatment System l	-		No				
		C. LANDFILL GAS UT	ILIZATION	N .			
Current Utilization:							
Utilization System Status:	Potential						
Utilization System Type:	Unknown						
Utilization System Start Year	:						
Electric Utility Provider(s):							
Natural Gas Provider(s):							
Energy Purchaser(s):							
Capacity:	Electrici	Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)					
Estimated Potential Capacity	:		3			26	
Current Capacity:							
Planned Capacity:							
Utilities in County:	Claverack R	ural Elec Coop Inc; Penn	sylvania Elec	⊥ ctric Compai	ny; Sullivan County R E C Inc	; Tri-Cou	
	D. ENVIR	CONMENTAL BENEFI	TS OF UTI	LIZATION			
		Pot	ential		Current		
Methane Reduction (tons/yr):				4,812		0	
CO2 Equivalent of CH4 Reduction	(tons/yr):			101,058		0	
	D: 1				D		
Emissions Avoided by Fossil Fuel	Displacement:	Electricity Gene	ū		Direct Use Project		
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr) So	O2 (tons/yr)	
	Coal:	20,521		130	14,492	132	
	Fuel Oil:	16,843		108	11,894	69	
	Natural Gas:	11,325		0	7,998	0	
		E. CONTACT INFOI	RMATION				
	Landfill (Landfill Operator		
Contact Name:			David	l T. Terrill, l	Executive Director		
Mailing Address:							
maining radioss.							
Phone Number:			717 3	97-4177			
			/1/-2	.71-4111			
Fax Number:							
* Itallicized indicates values estima	nted by EPA.	Dec	ember 5, 199	08	State: PA Page	e: 3	

^{*} Itallicized indicates values estimated by EPA.

			CBF, Incorporated l	T D	Landfill Cate	egory: Candidate
		A. G	ENERAL LANDFILL INF		Еападін Сан	egory. Calididate
I 4611 O	CDE L				(4)	70,000
Landfill Owner:		ncorporated LF		al Acceptance Rate		70,000 1995
Landfill Owner Type: Alternative Landfill N	Private ame: J&J LF			Annual Acceptance	Rate Reported:	
		llantown		gn Capacity (tons): s Currently Landfille	d (paras):	2,020,000 46
City: County:				age Depth (feet):	d (acres):	40
State:	Fayette PA	,		age Depth (feet). 5 Waste-in-Place (tor	ne).	570,000
Year Open:	1985			Waste-in-Place (ton	•	780,000
Year Closed:	2003		1990	wasie-in-1 tace (ton	3).	780,000
Teal Closed.	2003		B. LANDFILL GAS COLL	ECTION		
Estimated Methane Ge	eneration (mmsc	:f/d):		0.28		
LFG Collection System	n Status:		Operat	ional		
Current LFG Collected	d (mmscf/d):					
Collection and Treatm	ent System Req			No		
			C. LANDFILL GAS UTILI	ZATION		
Current Utilization:						
Utilization System	n Status:	Planned				
Utilization Syster	n Type:	Unknown				
Utilization Syster	n Start Year:					
Electric Utility Pr						
Natural Gas Prov	* *					
Energy Purchaser	r(s):					
Capacity:		Electric	ity Generation Project (MW)	OR	Direct Use Project (mm	Btu/hr)
Estimated Potent	ial Canacity:			1		9
Current Capacity				1		,
Planned Capacity						
	•					
Utilities in County:			ight Company; Hatfield Mun			nnsylvania Pow
		D. ENVI	RONMENTAL BENEFITS	OF UTILIZATION	1	
			Potenti	al	Curre	nt
Methane Reduction (to	ons/yr):			1,594		0
CO2 Equivalent of CH	14 Reduction (to	ns/yr):		33,468		0
Emissions Avoided by	Fossil Fuel Diss	nlacement:	Electricity Generati	ion Project	Direct Use I	Orojeat
Emissions Avoided by	rossii ruei Disp	рисетені.	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	7,104	45	4,799	302 (tons/yr) 44
	_	Fuel Oil:	5,830	38	3,939	23
	Λ	latural Gas:	3,920	0	2,649	0
		7 1011	E. CONTACT INFORMA	ATION		
		Landfill	Owner		Landfill Operator	
Contact Name:	Charles Santar	ngelo		Charles Santange	elo	
Mailing Address:	Road #1			Road #1		
	P.O. Box 266			P.O. Box 266		
Phone Number:	412-437-7336			412-437-7336		
Fax Number:						



			Chrin Brothers LF			Landfill Category.	Candidate	
		A. G	ENERAL LANDFILL INFO)RMAT	ION			
Landfill Owner:	Chrin E	Brothers, Inc.	Annu	al Accept	ance Rate (to	ons):	156,500	
Landfill Owner Type:	Private			_		ate Reported:	1998	
Alternative Landfill N	ame:		Desig	n Capaci	ty (tons):		2,747,867	
City:	Easton		Acres	Currentl	y Landfilled	(acres):	108	
County:	Northa	mpton	Avera	ge Deptl	(feet):			
State:	PA		1998	1998 Waste-in-Place (tons):				
Year Open:	1961		1998	1998 Waste-in-Place (tons):				
Year Closed:	2010							
		I	B. LANDFILL GAS COLLI	CTION				
Estimated Methane Ge	eneration (mmsc	f/d):		1.09				
LFG Collection System	n Status:							
Current LFG Collected								
Collection and Treatm		uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS UTILI	ZATION				
Current Utilization:								
Utilization Syster	n Status:	Unknown						
Utilization System		Unknown						
Utilization System		Chkhowh						
Electric Utility P								
Natural Gas Prov								
Energy Purchaser								
Energy Furchaser	(8).							
Capacity:		Electrici	ty Generation Project (MW)	()R	Direct Use Project (mmBtu/h	r)	
Estimated Potent	ial Capacity:			3			34	
Current Capacity:	:							
Planned Capacity	:							
Utilities in County:		Metropolitar	Edison Company; Middleto	vn Muni	inal Flec De	nt: PFCO Energy Company:	Pennsyly	
etinics in County.			RONMENTAL BENEFITS			pt, 1 Deo Energy Company,	Cinisyiv	
		D. ENVIR			ZIZATION			
			Potentie	ıl		Current		
Methane Reduction (to					6,275		0	
CO2 Equivalent of CH	14 Reduction (to	ns/yr):			131,771		0	
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Generation	n Projec	rt .	Direct Use Projec	rt	
Emissions Tivotaca by	r ossii r iici Disp	racement.	CO2 (tons/yr)	SO2 (tor	I .		02 (tons/yr)	
		<i>a</i> ,		202 (101		-		
		Coal:	26,835		170	18,896	172	
		Fuel Oil:	22,025		142	15,509	90	
	N	atural Gas:	14,810		0	10,428	0	
			E. CONTACT INFORMA	TION				
		Landfill (Landfill Operator		
Contact Name:	Gregory Chrin			Grego	ry Chrin, Gei	neral Partner		
Moiling Address								
Mailing Address:	635 Industrial	риче		033 II	dustrial Dr.			
Phone Number:	610/258-8737			610-2	58-8737			
For Number								
Fax Number:				610/2	58-4884			
* Italliaizad indicates v		1 ED4	ъ	or 5 100	0	State: DA Page	_	

* Itallicized indicates values estimated by EPA.

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			Colebrookdale I	.F		Landfill Category:	Current
		A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner:			An	nual Accept	ance Rate (t	ons):	300,678
Landfill Owner Type:	Public		Yea	ar Annual A	cceptance R	ate Reported:	1993
Alternative Landfill N	ame:		Des	sign Capaci	ty (tons):		4,715,000
City:	Media		Acı	res Currentl	y Landfilled	(acres):	60
County:	Berks		Av	erage Depth	(feet):		
State:	PA		19	93 Waste-ir	-Place (tons):	2,437,623
Year Open:			199	98 Waste-in-	Place (tons)):	3,640,335
Year Closed:	1997						
		I	B. LANDFILL GAS COL	LECTION			
Estimated Methane Ge	eneration (mmsc _j	f/d):		0.70			
LFG Collection System	n Status:						
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ	iired Under NSP	S/EG:	No			
			C. LANDFILL GAS UTII	LIZATION			
Current Utilization:							
Utilization Syster	n Status:	Construction					
Utilization Syster	n Type:	Reciprocatin	g Engine				
Utilization Syster	n Start Year:	1999					
Electric Utility Pr	rovider(s):						
Natural Gas Prov	ider(s):						
Energy Purchaser	r(s):						
Capacity:		Flectricit	y Generation Project (MW) ()R	Direct Use Project (mmBtu/h	r)
	. 10	Biccurer	generation Project (1474)			Direct obe Froject (initibitari	22
Estimated Potents				2			22
Current Capacity							
Planned Capacity	•						
Utilities in County:		Kutztown M	uni Lt & Power; Metropoli	tan Edison	Company; P	ennsylvania Electric Company	; Pennsy
		D. ENVIR	ONMENTAL BENEFIT	S OF UTII	IZATION		
			Poten	ıtial		Current	
Methane Reduction (to	ons/yr):				4,026		0
CO2 Equivalent of CH	14 Reduction (tor	ıs/yr):			84,548		0
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity Genera	_		Direct Use Projec	
			CO2 (tons/yr)	SO2 (ton	s/yr)	CO2 (tons/yr) So	02 (tons/yr)
		Coal:	17,364		110	12,124	110
		Fuel Oil:	14,252		92	9,951	58
	N	atural Gas:	9,583		0	6,691	0
			E. CONTACT INFORM	MATION			
		Landfill (Owner			Landfill Operator	
Contact Name:	Joseph Sebzda						
Mailing Address:	2nd and Orang	e Streets		Rose	Free Park - T	Γhe Hunt Club	
maining Address.	Ziid alid Oraligi	c Succis			North Provid		
Phone Number:	(10.267.2272					· - · - 	
i none runioei.	610-367-2373.			610-3	67-2373		
Fax Number:							

* Itallicized indicates values estimated by EPA.

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			Conshocken	LF		Landfill Cat	egory:	Current
		A. G	ENERAL LANDFILL	INFORMAT	ION			
Landfill Owner:	U.S. G	ypsum/Montgom	ery County	Annual Accep	tance Rate ((tons):		
Landfill Owner Type:	Private			-		Rate Reported:		
Alternative Landfill Name:	Montgo	omery County Ll		Design Capac	-	•		
City:	Swedel			Acres Current	-	d (acres):		25
County:	Montgo	omery		Average Dept	-	,		
State:	PA	•		1994 Waste-i		as):	3	3,600,000
Year Open:	1981			1998 Waste-ir	ı-Place (ton:	s):	3	3,600,000
Year Closed:	1985					•		
		l	B. LANDFILL GAS CO	OLLECTION	1			
Estimated Methane Generation	n (mmsc	f/d):		1.34				
LFG Collection System Status	s:		OI	perational				
Current LFG Collected (mmsc	cf/d):			0.9				
Collection and Treatment Syst	tem Requ	uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS U	FILIZATION	N			
Current Utilization:								
Utilization System Status	s:	Operational						
Utilization System Type:		Reciprocatin	g Engine					
Utilization System Start	Year:	1986						
Electric Utility Provider(s):							
Natural Gas Provider(s):								
Energy Purchaser(s):		Smith Kline	Beecham Research Cen	ter				
Capacity:		Electrici	ty Generation Project (M	(W)	OR	Direct Use Project (mn	nRtu/hr)	
		Licetici	Ty Generation 1 Toject (N			Direct Osc Project (IIII)	iibtu/iii)	
Estimated Potential Capa	acity:			4				42
Current Capacity:				2.0				19
Planned Capacity:								
Utilities in County:		Duquesne Li	ght Company; Lansdale	Electric Dept	t; PECO Ene	ergy Company; Pennsylv	ania Pow	ver & L
		D. ENVIE	RONMENTAL BENEF	TTS OF UTI	LIZATION	I		
			Po	tential		Curr	ent	
Methane Reduction (tons/yr):					7,740			3,469
CO2 Equivalent of CH4 Reduc	ction (to	ns/yr):			162,546			72,849
F : . A :1.11 F :11	r 10:	1	El			D: II	D : .	
Emissions Avoided by Fossil I	uel Disp	olacement:	Electricity Gen	=		Direct Use	-	
			CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	302	(tons/yr)
1		Coal:	33,150		210	23,309		212
		Fuel Oil:	27,208		175	19,131		112
	N	atural Gas:	18,295		0	12,864		0
			E. CONTACT INFO	RMATION				
		Landfill				Landfill Operator		
Contact Name:								
Mailing Address:								
ranning radicess.								
Phone Number:								
Fax Number:								
* Itallicized indicates values es	stimated	by EPA.	De	cember 5, 199	98	State: PA	Page:	7

^{*} Itallicized indicates values estimated by EPA.

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			Cor	unty LF			Landfill Cat	egory:	Candidate
		A. G	ENERAL LAND	-	RMATI	ON	<u> </u>		
Landfill Owner:	Americ	an Disposal		Annua	al Accept	ance Rate (to	ons):		176,524
Landfill Owner Type:	Private			Year A	Annual A	cceptance R	ate Reported:		1993
Alternative Landfill Na	ame: County	Environmental 1	ncorporated	Design Capacity (tons):					1,814,667
City:	Clarion			Acres Currently Landfilled (acres):					
County:	Clarion			Avera	ge Depth	(feet):			
State:	PA			1993	Waste-in	-Place (tons):		929,812
Year Open:	1990			1998 1	Waste-in-	Place (tons)) <i>:</i>		1,812,432
Year Closed:	2000								
		I	B. LANDFILL G	AS COLLE	CTION				
Estimated Methane Ge	eneration (mmsc	f/d):		(0.88				
LFG Collection System	n Status:			Operation	onal				
Current LFG Collected	l (mmscf/d):								
Collection and Treatme	ent System Requ				No				
			C. LANDFILL G	AS UTILIZ	ZATION				
Current Utilization:									
Utilization System	n Status:	Planned							
Utilization System	n Type:	Reciprocatin	g Engine						
Utilization System	n Start Year:								
Electric Utility Pr	ovider(s):								
Natural Gas Provi	ider(s):								
Energy Purchaser	(s):	Penn Electric	2						
Capacity:		Electrici	y Generation Proj	ject (MW)	О	R	Direct Use Project (mn	nBtu/hr)
Estimated Potenti	al Capacity:				3				28
Current Capacity:									
Planned Capacity	:								
Utilities in County:		Central Elec	ric Coop Inc; Pen	ınsylvania E	lectric Co	ompany; UC	I Corporation; United E	Electric	Coop In
<u> </u>		D. ENVIR	ONMENTAL B	ENEFITS (OF UTIL	IZATION			
				Potentia	l		Curre	ent	
Methane Reduction (to	ons/yr):					5,097			0
CO2 Equivalent of CH	- ·	ns/yr):			1	07,033			0
Emissions Avoided by	Fossil Fuel Disp	olacement:		ty Generatio	-	I	Direct Use	-	
			CO2 (tons.	/yr)	SO2 (ton	s/yr)	CO2 (tons/yr)	SO	2 (tons/yr)
		Coal:	22	,100		140	15,349		140
		Fuel Oil:	18	,139		117	12,597		73
	N	atural Gas:	12	,197		0	8,471		0
	• '		E. CONTACT		TION		3,1		
		Landfill (I II OMIIIA	11011		Landfill Operator		
Contact Name:	Ronald Nielson								
		., 1 1001UOIII							
Mailing Address:	P.O. Box 353								
Phone Number:					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	14-8220			
					014-02	r -1 -0220			
Fax Number:									
* Itallicized indicates v	aluas astimatad	h., EDA		Decembe	or 5 1009	<u> </u>	State: PA	Page:	8

^{*} Itallicized indicates values estimated by EPA.

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		East Pennsboro) LF		Landfill Cate	gory: Current
	A. G	ENERAL LANDFILL I	NFORMAT	ION		
Landfill Owner: Eas	st Pennsboro Townsh	nip A	annual Accep	tance Rate	(tons):	
Landfill Owner Type: Pul	olic	Y	ear Annual A	Acceptance	Rate Reported:	
Alternative Landfill Name:		D	esign Capaci	ty (tons):		
City: Eas	st Pennsboro	A	cres Currentl	ly Landfille	d (acres):	20
County: Cu	mberland	A	verage Deptl	n (feet):		100
State: PA		1	994 Waste-ii	n-Place (ton	ns):	400,000
Year Open: 195	58	1.	998 Waste-in	-Place (ton	s):	400,000
Year Closed: 197	79					
]	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Generation (m	mscf/d):		0.07			
LFG Collection System Status:		Ope	erational			
Current LFG Collected (mmscf/d)	:		0.1			
Collection and Treatment System	Required Under NSF	PS/EG:	No			
		C. LANDFILL GAS UT	ILIZATION	1		
Current Utilization:						
Utilization System Status:	Operational					
Utilization System Type:	Reciprocatin	g Engine				
Utilization System Start Year	: 1985					
Electric Utility Provider(s):						
Natural Gas Provider(s):						
Energy Purchaser(s):	Pennsylvani	a Power & Light Co				
Capacity:	Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mml	Btu/hr)
Estimated Potential Capacity	,.		0			2
Current Capacity:			0.1			2
Planned Capacity:			0.1			2
Utilities in County:		-	-	_	ny; Pennsylvania Electric (Company; Pen
	D. ENVII	RONMENTAL BENEFI		LIZATION	1	
		Pot	ential		Currer	
Methane Reduction (tons/yr):				428		385
CO2 Equivalent of CH4 Reduction	n (tons/yr):			8,990		8,093
Emissions Avoided by Fossil Fuel	Displacement:	Electricity Gene	ration Projec	rt	Direct Use P	roject
Emissions involuce by 1 ossic 1 det	Dispiceemeni.	CO2 (tons/yr)	SO2 (toi		CO2 (tons/yr)	SO2 (tons/yr)
			502 (10)			
	Coal:	1,579		10	1,289	12
	Fuel Oil:	1,296		8	1,058	6
	Natural Gas:	871		0	712	0
		E. CONTACT INFOR	RMATION			
	Landfill	Owner			Landfill Operator	
Contact Name:						
Mailing Address:						
<i>G</i>						
Phone Number:			412-8	34-6500		
			712-0	-U2UU		
Fax Number:						
* Itallicized indicates values estima	ated by EPA.	Dec	ember 5, 199	8	State: PA	Page: 9

		Empire SLI	7		Landfill Cat	egory: Current
	A. G	ENERAL LANDFILL I		ION	<u> </u>	
Landfill Owner: Emp	oire	A	nnual Accep	tance Rate ((tons):	1,035,533
Landfill Owner Type: Priv	ate	Y	ear Annual A	Acceptance 1	Rate Reported:	1993
Alternative Landfill Name:		D	esign Capaci	ty (tons):		16,348,200
City: Scra	inton	A	cres Currentl	ly Landfille	d (acres):	513
County: Lac	kawanna	A	verage Depth	n (feet):		
State: PA		1	993 Waste-ii	n-Place (ton	s):	8,917,557
Year Open:		1	998 Waste-in	-Place (tons	s):	14,095,222
Year Closed: 200	4					
	I	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Generation (mr	nscf/d):		1.52			
LFG Collection System Status:		Ope	erational			
Current LFG Collected (mmscf/d):			8.2			
Collection and Treatment System R	-		No			
		C. LANDFILL GAS UT	ILIZATION	1		
Current Utilization:						
Utilization System Status:	Operational					
Utilization System Type:	High Btu					
Utilization System Start Year:	1998					
Electric Utility Provider(s):						
Natural Gas Provider(s):						
Energy Purchaser(s):						
Capacity:	Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mr	nBtu/hr)
Estimated Potential Capacity:			5			48
Current Capacity:						171
Planned Capacity:						
Utilities in County:	Blakely Boro	ough Mun Light Plant; Cl	averack Rura	⊥ al Elec Coo _l	o Inc; Duquesne Light Co	ompany; Olyph
	D. ENVIR	RONMENTAL BENEFI	TS OF UTII	LIZATION	Ţ	
		Pot	ential		Curr	ent
Methane Reduction (tons/yr):				8,797		31,606
CO2 Equivalent of CH4 Reduction	(tons/yr):			184,745		663,728
Emissions Avoided by Fossil Fuel I	Displacement:	Electricity Gene	· ·		Direct Use	=
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)
	Coal:	37,885		240	26,492	241
	Fuel Oil:	31,095		200	21,744	127
	Natural Gas:	20,908		0	14,621	0
		E. CONTACT INFOR	RMATION			
	Landfill (Owner			Landfill Operator	
Contact Name:			Renat	o P. Marian	i, President	
Mailing Address:						
Phone Number:			717-5	62-1600		
E Noushau			111-3	52 1000		
Fax Number:						
* Itallicized indicates values estima	ted by EPA.	Dec	ember 5, 199	8	State: PA	Page: 10

^{*} Itallicized indicates values estimated by EPA.



			Frey Farr	n I.F		Landfill Ca	itegory.	Candidate	
		A. G	ENERAL LANDFIL		RMATION	Danajii Ca		Cundidate	
Landfill Owner:	Lancas	ter County Solid	Waste Management	Δnniia	ll Acceptance Rate ((tons):		212,933	
Landfill Owner Type:	Public	ter County Sond	waste Management		Annual Acceptance			1998	
Alternative Landfill N		ter CountyLF			n Capacity (tons):	Kate Reported.		1990	
City:	Conest	-		_	Currently Landfille	d (acres)		96	
County:	Lancas	_			ge Depth (feet):	u (acres).		70	
State:	PA				Waste-in-Place (ton	s):	1	1,516,997	
Year Open:	1989				Waste-in-Place (ton.			1,516,997	
Year Closed:	2016			1,,,,,,,,,	rasic in Trace (tons	<i>,</i>	•	1,510,777	
Tom Crosed.]	B. LANDFILL GAS (COLLE	CTION				
Estimated Methane Ge	eneration (mmsc	-f/d)·		0	0.81				
LFG Collection System		<i>j,u)</i> .		O					
Current LFG Collected									
Collection and Treatm		uired Under NSI	PS/EG:	3	Yes				
	Sie System 1104		C. LANDFILL GAS						
Current Utilization:									
Utilization System	n Status	Unknown							
Utilization System		Unknown							
Utilization System	• •	Chkhown							
Electric Utility Pr									
Natural Gas Prov									
Energy Purchaser(s):									
Energy Turemuser	(0).								
Capacity:		Electrici	ty Generation Project ((MW)	OR	Direct Use Project (m	mBtu/hr)		
Estimated Potent	ial Capacity:				3			25	
Current Capacity	:								
Planned Capacity	:								
Utilities in County:		Duquesne L	ight Company: Enhrata	a Borons	gh Electric Dent: M	etropolitan Edison Com	nany: PE	CO En	
			RONMENTAL BENE				rJ ,		
		D. EIVI							
M. J. D. J. J. J.			<i>I</i>	Potential		Cur	rent	0	
Methane Reduction (to	- ·				4,660			0	
CO2 Equivalent of CH	14 Reduction (to	ns/yr):			97,860			0	
Emissions Avoided by	Fossil Fuel Dis	placement:	Electricity Ge	eneratio	n Project	Direct Use	Project		
	•		CO2 (tons/yr)		SO2 (tons/yr)	CO2 (tons/yr)	-	? (tons/yr)	
		Coal:	19,732		125	14,033		128	
		Fuel Oil:	16,195		104	11,518		67	
	Λ	latural Gas:	10,890	ı	0	7,745		0	
			E. CONTACT INF	ORMA'	TION				
		Landfill	Owner			Landfill Operator			
Contact Name:	Jim Warner				Brooks K. Norris	, Technical Services Ma	nager		
Mailing Address:	1299 Harrisbu	ro Pike			1299 Harrisburg	Pike			
maning radices.	P.O. Box 4425				P.O. Box 4425	I IKC			
Phone Number:									
Fax Number:	717-397-9968				717-397-9968				
Tax Ivullibel.									



			GRO'	WS LF		Landfill Ca	tegory:	Current
		A. Gl	ENERAL LANDF	ILL INFO	RMATION			
Landfill Owner:				Annua	Acceptance Rate (tons):	1.	,388,552
Landfill Owner Type:	Public				nnual Acceptance F		-,	1993
Alternative Landfill Name	e: Pennsb	ury Power Produ	ction Plant		Capacity (tons):	•	14,	,156,738
City:	Morrist	-		_	Currently Landfilled	l (acres):		443
County:	Bucks				e Depth (feet):			80
State:	PA			_	Vaste-in-Place (tons	s):	9.	,903,443
Year Open:	1970				aste-in-Place (tons			,846,203
Year Closed:	2000					<i>,</i> .	-,	, ,
		F	. LANDFILL GA	S COLLE	CTION			
Estimated Methane Gener	ration (mmsc	f/d):		4.	73			
LFG Collection System S		,		Operation	nal			
Current LFG Collected (n				-	4.0			
Collection and Treatment		uired Under NSP	S/EG:		No			
	1		C. LANDFILL GA	S UTILIZ	ATION			
Current Utilization:								
Utilization System S	tatus.	Operational						
Utilization System T		Gas Turbine						
Utilization System S		1987						
Electric Utility Provi		1707						
Natural Gas Provide								
Energy Purchaser(s):		PECO Energ	v Company					
Ellergy Turchaser(s).	•	I ECO Ellerg	y Company					
Capacity:		Electricit	y Generation Proje	ct (MW)	OR	Direct Use Project (mr	nBtu/hr)	
Estimated Potential	Capacity:			1	5			148
Current Capacity:				6	6			83
Planned Capacity:								
Utilities in County:		PECO Energ	y Company; Penns	ylvania Pov	ver & Light Co; Per	kasie Borough Electric;	Philadelp	hia E
		D. ENVIR	ONMENTAL BE	NEFITS O	F UTILIZATION			
				Potential		Curr	ent	
 Methane Reduction (tons/	/vr):			2 0101111011	27,329			15,418
CO2 Equivalent of CH4 F	-	ns/vr)·			573,903			323,770
EG2 Equivalent of CITY		(15) y 1 y 1			373,703			323,770
Emissions Avoided by Fo	ssil Fuel Disp	olacement:	Electricity	Generation	n Project	Direct Use	Project	
			CO2 (tons/y	r) S	SO2 (tons/yr)	CO2 (tons/yr)	SO2	(tons/yr)
		Coal:	116,8	13	738	82,297		749
		Fuel Oil:	95,8	75	617	67,545		394
	N	latural Gas:	64,4	-68	0	45,418		0
			E. CONTACT II	NFORMAT	rion	·		
		Landfill (11 0111111		Landfill Operator		
Contact Name:						*		
Mailing Address:								
Phone Number: 21	15-736-9400				215-736-9400			
	13-730-7400				21J-7JU-74UU			
Fax Number:								

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* Itallicized indicates values estimated by EPA. December 5, 1998



			Grand Central	SLF		Landfill Category	: Candidate
		A. G	ENERAL LANDFILL I	NFORMATI	ON		
Landfill Owner:	USA W	aste Services	A	nnual Accepta	ance Rate (tons):	452,892
Landfill Owner Type:	Private		Y	ear Annual A	cceptance Rate	Reported:	1993
Alternative Landfill N	ame:		D	esign Capacity	y (tons):		8,132,898
City:	Pen Arg	gyl	A	cres Currently	Landfilled (ac	eres):	20
County:	Northai	mpton	A	verage Depth	(feet):		
State:	PA		1	1993 Waste-in-	-Place (tons):		2,265,669
Year Open:	1955		1	998 Waste-in-l	Place (tons):		4,530,129
Year Closed:	2004						
		J	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		1.23			
LFG Collection System			Ope	erational			
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ			No			
			C. LANDFILL GAS UT	TILIZATION			
Current Utilization:							
Utilization Syster	n Status:	Unknown					
Utilization Syster		Unknown					
Utilization Syster	n Start Year:						
Electric Utility Pr	rovider(s):						
Natural Gas Prov	ider(s):						
Energy Purchaser	c(s):						
Capacity:		Electrici	ty Generation Project (M	W) Ol	R Di	rect Use Project (mmBtu/l	nr)
Estimated Potenti	ial Capacity:			4			38
Current Capacity:	:						
Planned Capacity							
Utilities in County:		Metropolitar	n Edison Company: Midd	letown Munici	ipal Elec Dept:	PECO Energy Company;	Pennsyly
,			RONMENTAL BENEFI				-
				ential		Current	
 Methane Reduction (to	ons/vr):		101	Cititati	7,090	Carrent	0
CO2 Equivalent of CH	- ·	ns/vr)·		1,	48,898		0
EG2 Equivalent of CI	- Treamenton (101				10,070		
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Gene	ration Project		Direct Use Proje	ct
			CO2 (tons/yr)	SO2 (tons	s/yr)	CO2 (tons/yr) S	O2 (tons/yr)
		Coal:	29,993		190	21,352	194
		Fuel Oil:	24,617		159	17,525	102
	N	atural Gas:	16,553		0	11,784	0
			E. CONTACT INFOR	RMATION		, , -	-
		Landfill		WIATION .]	Landfill Operator	
Contact Name:	Nolan Perin			Charles	s Nowak		
Mailing Address:	1963 Pen Argy	l Koad		1963 P	en Argyl Road		
Phone Number:				800-62	1-2100		
E N- 1				550 52			
Fax Number:							
* Itallicized indicates v	values estimated	by EPA.	Dec	ember 5, 1998	1	State: PA Page	e: 13

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: PA



			Greater Lebanon Refuse	Authority LI	3	Landfill Category:	Current
		A. G	ENERAL LANDFILL I	NFORMAT	ION		
Landfill Owner:			A	nnual Accep	tance Rate (t	tons):	73,907
Landfill Owner Type:	Public			-		Rate Reported:	1993
Alternative Landfill Na	me:			esign Capaci	-	•	466,004
City:	Lebano	on	A	cres Currentl	y Landfilled	l (acres):	70.25
County:	Lebano	on		verage Deptl	-		75
State:	PA			993 Waste-ii		s):	396,925
Year Open:	1983			998 Waste-in	,	•	544,693
Year Closed:	1995				(***	,	,
]	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Gen	neration (mmsc	f/d):		0.19			
LFG Collection System		<i>y.</i> /-	Ope	erational			
Current LFG Collected			-1	2.2			
Collection and Treatmen		uired Under NSF	PS/EG:	No			
	ne system req		C. LANDFILL GAS UT		Į		
Current Utilization:							
	Ctatus	Operational					
Utilization System		Operational	- Eurius				
Utilization System	• •	Reciprocatin	g Engine				
Utilization System		1986					
Electric Utility Pro							
Natural Gas Provid	* *	36 . 10	D.I. G				
Energy Purchaser(s	s):	Metropolitai	Edison Company				
Capacity:		Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mmBtu/hr	r)
Estimated Potentia	al Capacity:			1			6
Current Capacity:				1.0			46
Planned Capacity:							
Utilities in County:		Metropolita	n Edison Company; Penns	sylvania Pow	er & Light C	 Co	
,			RONMENTAL BENEFI				
		D , D , (11		ential		Current	
 Methane Reduction (ton	2000).		FOR	епнин	1 112	Current	8,480
					1,113		
CO2 Equivalent of CH4	Reauction (to	ns/yr):			23,371		178,074
Emissions Avoided by F	Fossil Fuel Disp	placement:	Electricity Gene	ration Projec	et	Direct Use Project	t
•	•		CO2 (tons/yr)	SO2 (toi	ıs/yr)		2 (tons/yr)
		Coal:	4,736		30	3,352	31
		Fuel Oil:	3,887		25	2,751	16
						,	
	N	latural Gas:	2,614		0	1,850	0
			E. CONTACT INFOR	RMATION	·		
		Landfill	Owner			Landfill Operator	
Contact Name:				Micha	ael D. Pavele	ek II, Executive Director	
Mailing Address:							
11001000							
Phone Number:				7.5 0	CT 5500		
I HOHE INHHUEL.				717-8	67-5790		
Fax Number:							



			Greentree LF			Landfill Category.	Candidate
		A. G	ENERAL LANDFILL INF	ORMATI	ON		
Landfill Owner:	Superio	or Waste Service			ance Rate (to	one).	335,234
Landfill Owner Type:	Private			_		ate Reported:	1993
Alternative Landfill N				gn Capacit	-	ate Reported.	4,906,667
City:	Brockw	vav			y Landfilled	(acres):	114
County:	Elk	, шу		age Depth		(deres).	111
State:	PA				-Place (tons)	١٠	3,878,021
Year Open:	171				Place (tons)		5,554,191
Year Closed:	1999		1770	wasie in	race (tons)	•	3,334,171
Tom Croped.		l	B. LANDFILL GAS COLL	ECTION			
Estimated Methane Ge	eneration (mmsc	f/d)·		0.85			
LFG Collection Syster	· · · · · · · · ·	,,,.	Operat				
Current LFG Collected			Орегис	ionai			
Collection and Treatm		uired Under NSF	·S/EG·	No			
Concetion and Treatm	ent Bystem Requ		C. LANDFILL GAS UTILI				
C TEEL C			0.12.01.12.01.2.01.2.0				
Current Utilization:	G.	.					
Utilization System		Potential					
Utilization Syster		Unknown					
Utilization Syster							
Electric Utility Pr							
Natural Gas Prov							
Energy Purchaser	r(s):						
Capacity:		Electrici	ty Generation Project (MW)	C	R	Direct Use Project (mmBtu/h	r)
Estimated Potenti	ial Capacity:			3			27
Current Capacity:							
Planned Capacity	:						
Utilities in County:		United Elect	ric Coop Inc; West Penn Pov	ver Compa	any		
-		D. ENVIE	RONMENTAL BENEFITS	OF UTII	IZATION		
		2,21,11	Potenti			Current	
Mothano Bodustion (to			Potenti	aı	4 021	Current	0
Methane Reduction (to	• .			1	4,931		0
CO2 Equivalent of CH	4 Reauction (to)	ns/yr):		J	03,551		0
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generati	on Projec	t	Direct Use Projec	rt
-	_		CO2 (tons/yr)	SO2 (ton	s/yr)	CO2 (tons/yr) So	O2 (tons/yr)
		Coal:	21,311		135	14,849	135
		Fuel Oil:	17,491		113	12,187	71
	N	atural Gas:	11,761		0	8,195	0
			E. CONTACT INFORMA	ATION			
		Landfill	Owner			Landfill Operator	
Contact Name:	Jerry Ross			Thoma	as E. Latime	r, Vice President	
Mailing Address:	P.O. Box O						
Phone Number:	Q14 065 1744			014.24	55 1744		
	814-265-1744			014-20	55-1744		
Fax Number:							
				1			



			Imperial LF		Landfill Cat	egory: Candidate
		A. G	ENERAL LANDFILL INFO	ORMATION	<u> </u>	egory. Canadate
Landfill Owner:				al Acceptance Rate	(tons):	443,215
Landfill Owner Type:	Private			Annual Acceptance		1993
Alternative Landfill N		ımber 1 LF		n Capacity (tons):	Rate Reported.	14,794,853
City:	Imperia			Currently Landfille	d (agres):	304
City. County:	Alleghe			ge Depth (feet):	u (acres).	304
State:	PA	eny		ge Deptii (feet): Waste-in-Place (tor		2 069 151
	PA			`	,	3,968,151
Year Open:	2012		1998	Waste-in-Place (ton	s):	6,184,226
Year Closed:	2013	ı	B. LANDFILL GAS COLLE	CCTION		
Estimated Methane Ge	neration (mmsc),90		
LFG Collection System		,,,.	Operation			
Current LFG Collected			Operation	, iiui		
Collection and Treatm		uired Under NSF	PS/FG·	No		
Concetion and Treatm	ent bystem Requ		C. LANDFILL GAS UTILIZ			
Current Utilization:						
	. C4-4	Planned				
Utilization Syster			1			
Utilization Syster	• •	Direct Therr	nai			
Utilization Syster						
Electric Utility Pr						
Natural Gas Prov	* *					
Energy Purchaser	(s):	Pittsburgh A	ırport			
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mr	nBtu/hr)
Estimated Potenti	al Capacity:			3		28
Current Capacity:						
Planned Capacity	:					
Utilities in County:		Central Elec	tric Coop Inc; Duquesne Ligh	t Company; Metrop	olitan Edison Company;	PECO Energy C
		D. ENVIR	RONMENTAL BENEFITS (OF UTILIZATION	<u>, , , , , , , , , , , , , , , , , , , </u>	
			Potentia		Curr	ent
Methane Reduction (to	ma(hr).		1 отепни	5,216	Cuii	0
CO2 Equivalent of CH	- ·	m a (1) m) •		109,540		0
CO2 Equivalent of Ch	4 Keauction (to	ns/yr).		109,340		0
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generation	n Project	Direct Use	Project
			CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	22,100	140	15,708	143
		Fuel Oil:	18,139	117	12,892	75
	N	atural Gas:	12,197	0	8,669	0
			E. CONTACT INFORMA	TION		
		Landfill (Landfill Operator	
Contact Name:				Michael T. Hehe	r, Vice President	
M-:1: A 1.1	D4 000 0 D	1				
Mailing Address:	Route 980 & B	oggs Koad				
Phone Number:	412-695-0900			412-695-0900		
E N I	.12 0/3 0/00			112 073 0700		
Fax Number:						

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: PA Page: 16



		Keystone SL	F		Landfill Ca	tegory: Current
	A. G	ENERAL LANDFILL I	NFORMATI	ON		
Landfill Owner:	Keystone	A	nnual Accept	ance Rate (t	cons):	893,454
Landfill Owner Type:	Private	Y	ear Annual A	cceptance R	Rate Reported:	1993
Alternative Landfill Name:		D	esign Capacit	y (tons):		14,202,725
City:	Scranton	A	cres Currently	y Landfilled	(acres):	145
	Lackawanna	A	verage Depth	(feet):		
State:	PA		993 Waste-in		s):	5,243,875
Year Open:		19	998 Waste-in-	Place (tons) <i>:</i>	9,711,145
Year Closed:	2004			,		
		B. LANDFILL GAS CO	LLECTION			
Estimated Methane Generation	ı (mmscf/d):		1.18			
LFG Collection System Status:	:	Ope	rational			
Current LFG Collected (mmsc	f/d):					
Collection and Treatment Syste	em Required Under NS	PS/EG:	No			
		C. LANDFILL GAS UT	ILIZATION			
Current Utilization:						
Utilization System Status:	Operational					
Utilization System Type:	Reciprocation	ng Engine				
Utilization System Start Y	Year: 1994					
Electric Utility Provider(s						
Natural Gas Provider(s):						
Energy Purchaser(s):	Pennsylvani	ia Power and Light				
Capacity:	Electric	ity Generation Project (MV	V) O	R	Direct Use Project (mi	mBtu/hr)
Estimated Potential Capa	city:		4			37
Current Capacity:			5.6			
Planned Capacity:						
Utilities in County:	Blakely Bot	ough Mun Light Plant; Cl	averack Rura	l Elec Coop	Inc: Duquesne Light C	ompany: Olyph
Cunties in County.		RONMENTAL BENEFI			me, Buquesne Bigne C	
	D. EIVII	I		AZATION	-	
		Pote	ential	6.012	Curi	
Methane Reduction (tons/yr):				6,813		0
CO2 Equivalent of CH4 Reduc	tion (tons/yr):		1	43,069		0
Emissions Avoided by Fossil F	uel Displacement:	Electricity Gener	ration Proiec	t	Direct Use	Proiect
,	1	CO2 (tons/yr)	SO2 (ton	I	CO2 (tons/yr)	SO2 (tons/yr)
	Coal			185	, , ,	
	Coal:	29,203		103	20,516	187
	Fuel Oil:	23,969		154	16,838	98
	Fuel Oil: Natural Gas:	23,969 16,117		0	16,838 11,322	98 0
			MATION			
		16,117 E. CONTACT INFOR	MATION			
Contact Name:	Natural Gas:	16,117 E. CONTACT INFOR	MATION		11,322	
	Natural Gas:	16,117 E. CONTACT INFOR		0	11,322	
Contact Name: Mailing Address:	Natural Gas:	16,117 E. CONTACT INFOR			11,322	
Mailing Address:	Natural Gas:	16,117 E. CONTACT INFOR	P.O. B	0 Sox 249	11,322	
	Natural Gas:	16,117 E. CONTACT INFOR	P.O. B	0	11,322	
Mailing Address:	Natural Gas:	16,117 E. CONTACT INFOR	P.O. B	0 Sox 249	11,322	

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			Lake View LF			Landfill Category	: Current
		A. G	ENERAL LANDFILL INF	ORMAT	ION		
Landfill Owner:	WMI		Ann	ıal Accep	tance Rate (to	ns):	688,327
Landfill Owner Type:	Private		Year	Annual A	Acceptance Ra	te Reported:	1993
Alternative Landfill N	ame:		Desi	gn Capaci	ty (tons):		5,811,441
City:	Erie		Acre	s Currentl	y Landfilled ((acres):	20
County:	Erie		Aver	age Depth	n (feet):		
State:	PA		199	3 Waste-ii	n-Place (tons):	:	4,585,516
Year Open:	1971		1998	Waste-in	-Place (tons):		8,027,151
Year Closed:	1998						
		I	B. LANDFILL GAS COLL	ECTION			
Estimated Methane Ge	eneration (mmsc	f/d):		2.47			
LFG Collection Syster	n Status:		Operat	ional			
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ	ired Under NSF	S/EG:	No			
			C. LANDFILL GAS UTIL	ZATION	Ī		
Current Utilization:							
Utilization Syster	n Status:	Operational					
Utilization System		Reciprocatin	g Engine				
Utilization System		1997	5 Eligine				
Electric Utility Pr		1777					
Natural Gas Prov							
Energy Purchaser	* /						
Energy I dichaser	(8).						
Capacity:		Electrici	ty Generation Project (MW)	(OR I	Direct Use Project (mmBtu/l	ır)
Estimated Potenti	ial Capacity:			8			77
Current Capacity:	:			3.3			
Planned Capacity	:						
Utilities in County:		Girard Boro	ıgh Electric; Northwestern F	EC Assn	Inc; Pennsylv	ania Electric Company; War	ren Elect
		D. ENVII	CONMENTAL BENEFITS	OF UTII	LIZATION		
			Potent	al		Current	
 Methane Reduction (to	ons/vr)·		1 010111	cii	14,287	Current	0
CO2 Equivalent of CH	• .	15/vr)·			300,029		0
EO2 Equivalent of CII	- Reduction (to	yı y.			300,023		
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generat	on Projec	et	Direct Use Proje	ct
			CO2 (tons/yr)	SO2 (to	ıs/yr)	CO2 (tons/yr) S	O2 (tons/yr)
		Coal:	60,774		384	43,024	392
		Fuel Oil:	49,881		321	35,312	206
	N	atural Gas:	33,541		0	23,744	0
		anaran Gas.		ATION		23,744	0
		Landfill	E. CONTACT INFORM	ATION		Landfill Operator	
Contact Name:	Morle Massay					Landini Operator	
		General Manage	1				
Mailing Address:	1154 West 16th	n Street					
Phone Number:	610 227 2702			0140	25-8588		
	610-327-2703			014-8	<i>45</i> -0308		
Fax Number:							

^{*} Itallicized indicates values estimated by EPA. December 5, 1998



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			Lanch	nester LF			Landfill Categor	y: Current		
		A. G	ENERAL LANDI	FILL INFO	RMAT	ION				
Landfill Owner:	Chester	County Solid W	aste Authority	Annua	ıl Accept	ance Rate (to	ons):	198,546		
Landfill Owner Type:	Public			Year Annual Acceptance Rate Reported:				1993		
Alternative Landfill Name:				Design Capacity (tons):				1,388,889		
City:	Honey 1	Brook		Acres	Acres Currently Landfilled (acres): 154					
County:	Lancast	er		Avera	ge Depth	(feet):				
State:	PA			1993	Waste-ir	-Place (tons)):	1,126,425		
Year Open:	1984			1998 V	Waste-in-	-Place (tons)	:	2,129,510		
Year Closed:	1998									
		I	B. LANDFILL GA	AS COLLE	CTION					
Estimated Methane Generat	ion (mmscj	f/d):		C).96					
LFG Collection System Stat	us:			Operation	nal					
Current LFG Collected (mm	scf/d):									
Collection and Treatment Sy	ystem Requ	ired Under NSF	S/EG:		No					
			C. LANDFILL GA	AS UTILIZ	ZATION					
Current Utilization:										
Utilization System Stat	us:	Construction	l							
Utilization System Typ	e:	High Btu								
Utilization System Star	t Year:	1999								
Electric Utility Provide	er(s):									
Natural Gas Provider(s):									
Energy Purchaser(s):		Columbia G	as							
Capacity:	Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)									
Estimated Potential Ca	pacity:				3			30		
Current Capacity:	1									
Planned Capacity:										
		D 1.	1.0	D	1.51.4	. D . M .	L'A EL C	DECO E		
Utilities in County:		•	gnt Company; Epr	`		•	tropolitan Edison Company;	PECO En		
		D. ENVIR	CONVIENTAL BI			ZIZATION				
				Potentia	l		Current			
Methane Reduction (tons/yr,						5,566		0		
CO2 Equivalent of CH4 Rea	luction (tor	ıs/yr):]	116,880		0		
Emissions Avoided by Fossi	l Fuel Disp	placement:	Electricit	y Generatio	n Projec	t	Direct Use Proje	ect		
	_F		CO2 (tons/	,	SO2 (tor		·	SO2 (tons/yr)		
		<i>C</i> 1			(-			
		Coal:		678		150	16,761	153		
		Fuel Oil:	19,	434		125	13,756	80		
	No	atural Gas:	13,	068		0	9,250	0		
			E. CONTACT I	NFORMA	TION					
		Landfill (Owner				Landfill Operator			
Contact Name:					Theod	lore F. O'Nei	ll, Executive Director			
Mailing Address:										
waning Address.										
Dhana Namb										
Phone Number:					610-2	73-3771				
Fax Number:										
* Itallicized indicates values		. ED4		Decembe	5 100	0	State: PA Pag	re· 19		

^{*} Itallicized indicates values estimated by EPA.

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			Lycoming (County LF		Landfill Category	: Current
		A. G	ENERAL LANDFII	-	ATION		
Landfill Owner:	Lycomi		Waste Authority		ceptance Rate ((tons):	260,225
Landfill Owner Type:	Public			Year Annua	al Acceptance	Rate Reported:	1993
Alternative Landfill Nam	ne:			Design Cap	acity (tons):		7,126,000
City:	Montgo	omery		Acres Curre	ently Landfille	d (acres):	85
County:	Lycomi	ing		Average De	epth (feet):		175
State:	PA			1993 Wast	e-in-Place (ton	as):	3,975,972
Year Open:	1978			1998 Waste	-in-Place (ton	s):	5,277,097
Year Closed:	2009						
		I	B. LANDFILL GAS	COLLECTION	ON		
Estimated Methane Gene	eration (mmsc	f/d):		1.77			
LFG Collection System S	Status:			Operational			
Current LFG Collected (1	mmscf/d):			2.2			
Collection and Treatmen	t System Requ	uired Under NSF	PS/EG:	No			
			C. LANDFILL GAS	UTILIZATI	ON		
Current Utilization:							
Utilization System S	Status:	Operational					
Utilization System		Reciprocatin	g Engine				
Utilization System S	• 1	1993					
Electric Utility Prov							
Natural Gas Provide							
Energy Purchaser(s)		Lycoming C	ounty Electricity Ger	nerating Stat			
	, -	_, · · · · · · · · · · · · · · · · · · ·	,				
Capacity:		Electrici	ty Generation Projec	t (MW)	OR	Direct Use Project (mmBtu/l	ır)
Estimated Potential	Capacity:			6			55
Current Capacity:				1.3			46
Planned Capacity:							
Utilities in County:		Clayana als D	umal Elas Coom Inou I	DECO En anavy	Commonvy Don	nsylvania Electric Company; F	Donnardrian
Othlites in County.							emisyrvan
		D. ENVII	RONMENTAL BEN		TILIZATION		
				Potential		Current	
Methane Reduction (tons	s/yr):				10,220		8,480
CO2 Equivalent of CH4	Reduction (tor	ns/yr):			214,628		178,074
Emissions Avoided by Fo	esil Fuel Dist	alacement:	Floatricity (Generation Pro	viaat	Direct Use Proje	et .
Emissions Avoided by Fo	ssu ruei Disp	насетені.	CO2 (tons/yr		tons/yr)		O2 (tons/yr)
		Coal:	43,41	0	274	30,777	280
		Fuel Oil:	35,62	9	229	25,261	147
	N	latural Gas:	23,95	8	0	16,986	0
			E. CONTACT IN	FORMATIO	N		
		Landfill (Landfill Operator	
Contact Name:				W	avne I Alevan	der, General Manager	
				***	iyiic J. Micaali	dei, General Mallagei	
Mailing Address:							
Phone Number:				71	7-547-1870		
Fax Number:							



		Mazzaro Ll	7		Landfill Categ	ory: Current
	A. G	ENERAL LANDFILL I		TION		
Landfill Owner: Maz	zaro Coal Compan	ν Δ	nnual Accep	ntance Rate ((tons):	
Landfill Owner Type: Priva					Rate Reported:	
Alternative Landfill Name:			esign Capac	-	Rate Reported.	
City: Impe	erial		cres Current	•	d (acres):	90
	gheny		verage Dept	-	a (acres).	,,,
State: PA	Sherry		994 Waste-i		ns).	3,000,000
Year Open: 1945			998 Waste-ir			3,000,000
Year Closed:		1)) Wasie ii	i i iace (ion	5).	3,000,000
]	B. LANDFILL GAS CO	LLECTION	1		
Estimated Methane Generation (mm	ıscf/d):		0.85			
LFG Collection System Status:		Ope	erational			
Current LFG Collected (mmscf/d):		- r	1.0			
Collection and Treatment System R	eauired Under NSI	PS/EG:	No			
	-	C. LANDFILL GAS UT	ILIZATION	N		
Current Utilization:						
Utilization System Status:	Operational					
Utilization System Type:	Reciprocatir	ng Engine				
Utilization System Start Year:	1989	-66				
Electric Utility Provider(s):	1,0,					
Natural Gas Provider(s):						
Energy Purchaser(s):	Duquesne L	ight Company				
6,	-					
Capacity:	Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mmB	tu/hr)
Estimated Potential Capacity:			3			27
Current Capacity:			1.2			21
Planned Capacity:						
Utilities in County:	Central Elec	tric Coop Inc; Duquesne	Light Compa	any; Metrop	olitan Edison Company; PE	CO Energy C
	D. ENVII	RONMENTAL BENEFI	TS OF UTI	LIZATION	<u> </u>	
		Pot	ential		Curren	 t
Methane Reduction (tons/yr):				4,928		3,854
CO2 Equivalent of CH4 Reduction ((tons/vr):			103,484		80,942
The second secon						
Emissions Avoided by Fossil Fuel D	isplacement:	Electricity Gene	ration Proje	ct	Direct Use Pr	oject
		CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)
	Coal:	21,311		135	14,839	135
	Fuel Oil:	17,491		113	12,180	71
	Natural Gas:	11,761		0	8,190	0
	T 10:11	E. CONTACT INFOR	RMATION		1 1011 0	
	Landfill	Owner			Landfill Operator	
Contact Name:						
Mailing Address:						
Phone Number:						
Fax Number:						
* Itallicized indicates values estimate	ed by EPA.	Dec	ember 5, 199	98	State: PA I	Page: 21

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			Modern LF			Landfill Categor	y: Current
		A. GENERA	L LANDFILL IN	FORMATI	ON	-	
Landfill Owner:	WMI		An	nual Accept	ance Rate (to	ons):	666,611
Landfill Owner Type:	Private		Ye	ar Annual A	cceptance Ra	ate Reported:	1993
Alternative Landfill Name:	Modern Trash R	emoval LF	Des	sign Capacit	y (tons):		8,414,376
City:	York		Ac	res Currentl	y Landfilled ((acres):	120
County:	York		Av	erage Depth	(feet):		
State:	PA		19	93 Waste-in	-Place (tons)	:	5,561,363
Year Open:	1978		199	98 Waste-in-	Place (tons):	•	8,894,418
Year Closed:	2001						
		B. LANI	DFILL GAS COL	LECTION			
Estimated Methane Generation	on (mmscf/d):			2.69			
LFG Collection System Status			Oper	ational			
Current LFG Collected (mmse							
Collection and Treatment Sys	tem Required Und			No			
		C. LAN	DFILL GAS UTII	LIZATION			
Current Utilization:							
Utilization System Status	s: Oper	ational					
Utilization System Type:	: Recip	procating Engin	e				
Utilization System Start	Year: 1998						
Electric Utility Provider((s):						
Natural Gas Provider(s):							
Energy Purchaser(s):							
Capacity:	E	lectricity Gener	ration Project (MW	') C	R :	Direct Use Project (mmBtu	/hr)
Estimated Potential Cape	acity:			8			84
Current Capacity:							
Planned Capacity:							
Utilities in County:	Δdan	ns Flectric Coor	perative Inc. Duque	esne Light (Company: Go	ldsboro Borough Utility De	nt: Lewish
Cunities in County.			ENTAL BENEFIT			lusboro Borough Cunty De	pt, Lewiso
	р.	ENVIRONNIE			IZATION		
M. J. D. J. S. C. ()			Poter		15.570	Current	0
Methane Reduction (tons/yr):					15,570		0
CO2 Equivalent of CH4 Redu	ction (tons/yr):				26,962		0
Emissions Avoided by Fossil I	Fuel Displacemen	t:	Electricity Genera	ation Projec	t	Direct Use Proj	ect
			CO2 (tons/yr)	SO2 (ton	s/yr)	CO2 (tons/yr)	SO2 (tons/yr)
	Со	al:	66,299		419	46,886	427
	Fuel C	Dil:	54,415		350	38,482	224
	Natural G		36,590		0	25,876	0
	- Natural Oc			A TION	0	25,670	0
	I	andfill Owner	NTACT INFORM	MATION		Landfill Operator	
Contact Name:	<u> </u>					Landiii Operator	
Mailing Address:							
Phone Number:				610-37	27-2703		
				010.52	2. 2.03		
Fax Number:							



		Monroeville LF	?		Landfill Category	: Current
	A. G	ENERAL LANDFILL IN	FORMAT	ION		
Landfill Owner: U	SA Waste	Anı	nual Accep	tance Rate (to	ns):	344,615
Landfill Owner Type: Pr	rivate	Yea	r Annual A	Acceptance Ra	ite Reported:	1993
Alternative Landfill Name: C	hambers LF	Des	ign Capaci	ty (tons):		2,314,500
City:	Ionroeville	Acr	es Currentl	y Landfilled ((acres):	44
County: A	llegheny	Ave	erage Depth	ı (feet):		
State: PA	A	199	93 Waste-ii	n-Place (tons):	:	1,819,436
· · · · · · · · · · · · · · · · · · ·	971	199	8 Waste-in	-Place (tons):		3,542,511
Year Closed: 19	998					
	I	B. LANDFILL GAS COL	LECTION			
Estimated Methane Generation (i	mmscf/d):		1.32			
LFG Collection System Status:		Opera	ıtional			
Current LFG Collected (mmscf/d						
Collection and Treatment System			No			
		C. LANDFILL GAS UTII	IZATION			
Current Utilization:						
Utilization System Status:	Construction	1				
Utilization System Type:	High Btu					
Utilization System Start Yea	ar: 1999					
Electric Utility Provider(s):						
Natural Gas Provider(s):						
Energy Purchaser(s):	Monroeville	Mall				
Capacity:	Electrici	ty Generation Project (MW) (OR I	Direct Use Project (mmBtu/h	nr)
Estimated Potential Capacit	ty:		4			41
Current Capacity:						
Planned Capacity:						
Utilities in County:	Central Elec	tric Coop Inc; Duquesne Li	ght Compa	ny; Metropoli	tan Edison Company; PECO	Energy C
,		RONMENTAL BENEFIT			1 37	
	272.772	Poten			Current	
Methane Reduction (tons/yr):		roien	ши	7,655	Current	0
CO2 Equivalent of CH4 Reduction	on (tons/vr):			160,761		0
CO2 Equivalent of CII+ Reduction	m (10113/y1).			100,701		
Emissions Avoided by Fossil Fue	l Displacement:	Electricity Genera	tion Projec	et	Direct Use Projec	ct
		CO2 (tons/yr)	SO2 (tor	ıs/yr)	CO2 (tons/yr) Se	O2 (tons/yr)
	Coal:	32,360		205	23,053	210
	Fuel Oil:	26,560		171	18,921	110
	Natural Gas:	17,859		0	12,723	0
		E. CONTACT INFORM	IATION			
	Landfill (Owner			Landfill Operator	
Contact Name:						
Mailing Address:						
Phone Number:			412-2	44-6091		
			112.2	5571		
Fax Number:						



			Mountain View R	eclamation		Landfill Category	: Candidate
		A. G	ENERAL LANDFILL	INFORMAT	ION	, ,	
Landfill Owner:				Annual Accept	tance Rate (tons):		269,531
Landfill Owner Type:	Private			-	Acceptance Rate R		1993
Alternative Landfill Name	: Commu	unity Refuse Lin	nited LF	Design Capaci	ty (tons):		3,488,289
City:	Greence	astle		Acres Currentl	y Landfilled (acre	es):	56
County:	Frankli	n		Average Depth	ı (feet):		
State:	PA			1993 Waste-ir	n-Place (tons):		3,089,277
Year Open:	1977			1998 Waste-in	-Place (tons):		4,233,272
Year Closed:	1998						
		1	B. LANDFILL GAS C	OLLECTION			
Estimated Methane Gener	ation (mmsc _j	f/d):		1.50			
LFG Collection System St	tatus:						
Current LFG Collected (m	mscf/d):						
Collection and Treatment	System Requ	uired Under NSF	PS/EG:	No			
			C. LANDFILL GAS U	TILIZATION	ſ		
Current Utilization:							
Utilization System St	atus:	Potential					
Utilization System Ty	ype:	Unknown					
Utilization System St	art Year:						
Electric Utility Providence	der(s):						
Natural Gas Provider	(s):						
Energy Purchaser(s):							
Canaditan		E14-:-:	t Cti Dit (1	(MW)	ND D:		>
Capacity:		Electrici	ty Generation Project (I		OR Dire	ect Use Project (mmBtu/h	
Estimated Potential (Capacity:			5			47
Current Capacity:							
Planned Capacity:							
Utilities in County:		Adams Elect	tric Cooperative Inc; Ch	nambersburg M	uni Elec Dept; M	ont Alto Lighting Systen	ı; PECO
		D. ENVIE	RONMENTAL BENE	FITS OF UTII	LIZATION		
			P	otential		Current	
Methane Reduction (tons/)	vr):		_		8,677		0
CO2 Equivalent of CH4 R		ns/vr):		1	182,213		0
Emissions Avoided by Fos	sil Fuel Disp	olacement:	Electricity Ger	neration Projec	rt	Direct Use Projec	ct
			CO2 (tons/yr)	SO2 (tor	is/yr)	CO2 (tons/yr) Se	O2 (tons/yr)
		Coal:	37,096		235	26,129	238
		Fuel Oil:	30,447		196	21,445	125
	λ7	atural Gas:	20,473		0	14,420	0
	TV.	anuran Gas.		DATA TION		14,420	
		I andfill	E. CONTACT INFO	DRMATION	I a	andfill Operator	
Contact Name:		Landini	Owner		L	andrin Operator	
Contact Ivallie.							
Mailing Address:							
Phone Number:				717.5	97-5666		
				/1/-3) i =3000		
Fax Number:							
		Landfill (Owner	717-5	Li 97-5666	andfill Operator	
Fax Number:							



			Northwest SLF		Landfill Cates	gory: Candidate
		A. G	ENERAL LANDFILL INF	ORMATION		Sory. Candidate
Londfill O	3373 AT	71. 0			ta (tana).	270 507
Landfill Owner Type:	WMI Privata			al Acceptance Ra		270,507
Landfill Owner Type: Alternative Landfill N	Private			-	ce Rate Reported:	1993
				gn Capacity (tons)		2,952,556
City:	Sunbur	y		Currently Landf	med (acres):	63
County:	Butler			age Depth (feet):	· \	1 212 525
State:	PA			Waste-in-Place (•	1,313,605
Year Open:	1991		1998	Waste-in-Place (tons):	2,666,140
Year Closed:	2002	ī	B. LANDFILL GAS COLL	ECTION		
			D. LANDFILL GAS COLL			
Estimated Methane Ge		f/d):		1.10		
LFG Collection System			Operati	onal		
Current LFG Collected						
Collection and Treatm	ent System Requ			No		
			C. LANDFILL GAS UTILI	ZATION		
Current Utilization:						
Utilization Syster	n Status:	Unknown				
Utilization Syster	n Type:	Unknown				
Utilization Syster	n Start Year:					
Electric Utility Pr	rovider(s):					
Natural Gas Prov	ider(s):					
Energy Purchaser	r(s):					
Capacity:		Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmI	Btu/hr)
Estimated Potenti	ial Capacity:			3		34
Current Capacity:	:					
Planned Capacity	:					
III:li:		C-nturl Elec	tuis Coon In Du	D		and David David
Utilities in County:					nsylvania Power Company; W	est Penn Pow
		D. ENVII	RONMENTAL BENEFITS	OF UTILIZATI		
			Potenti	al	Currer	nt
Methane Reduction (to	ons/yr):			6,359		0
CO2 Equivalent of CH	14 Reduction (to	ns/yr):		133,545		0
Emissions A: 1-11	Fossil Eurl D'	lacom serte	Elanduinide C	on Duoisst	D:, II. D	maiaat
Emissions Avoided by	rossu ruel Disp	nacement:	Electricity Generati	-	Direct Use P	=
			CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	26,835	170	19,150	174
		Fuel Oil:	22,025	142	15,718	92
	N.	atural Gas:	14,810	0	10,569	0
	IV	aiarai Gas.			10,507	<u> </u>
		Landfill (E. CONTACT INFORMA	ATION	Landfill Operator	
C · · · · N				T		
Contact Name:	Frank Penning	ton, Operations I	Manager	Frank Penning	gton, Operations Manager	
Mailing Address:	1436 West Sun	bury Road		1436 West Su	nbury Road	
Phone Number:	412-637-3552			412-637-3552		
	714-037-3334			712-037-3332	•	
Fax Number:						
	· · · · · · · · · · · · · · · · · · ·			-		



			Pine Grove I			Landfill Categ	ory: Candid	late
		A. Gl	ENERAL LANDFILL I	NFORMATI	ION	, ,		
Landfill Owner:	Delmar	va Capital	A	nnual Accept	ance Rate (tons):	200,04	 49
Landfill Owner Type:	Private		Y	ear Annual A	nnual Acceptance Rate Reported: 1993			
Alternative Landfill Na	me:		D	esign Capaci	ty (tons):		1,876,87	75
City:	Pine Gr	rove	A	cres Currentl	y Landfilled	d (acres):	(65
County:	Schuyll	xill	A	verage Depth	(feet):			
State:	PA		1	993 Waste-in	-Place (tons	s):	1,098,15	55
Year Open:			1	998 Waste-in-	Place (tons	y):	2,098,40	00
Year Closed:	1998							
		I	B. LANDFILL GAS CO	LLECTION				
Estimated Methane Gen	neration (mmsc _j	f/d):		0.23				
LFG Collection System	Status:							
Current LFG Collected	(mmscf/d):							
Collection and Treatmen	nt System Requ	uired Under NSP	S/EG:	No				
			C. LANDFILL GAS UT	ILIZATION	•			
Current Utilization:								
Utilization System	Status:	Potential						
Utilization System	Type:	Direct Thern	nal					
Utilization System	Start Year:							
Electric Utility Pro	vider(s):							
Natural Gas Provid	ler(s):							
Energy Purchaser(s	s):							
Capacity:		Flectrici	y Generation Project (M	W) C)R	Direct Use Project (mmB	tu/hr)	
	1 C	Licenter	y deneration roject (W			Direct Ose Froject (IIIIID		
Estimated Potentia	и Сарасиу:			1			7	
Current Capacity: Planned Capacity:								
Planned Capacity:								
Utilities in County:		Pennsylvania	a Power & Light Co; Sch	uykill Haven	Borough Ut	tilities		
		D. ENVIR	ONMENTAL BENEFI	TS OF UTIL	IZATION			
			Pot	ential		Current		
Methane Reduction (ton	ns/yr):				1,313			0
CO2 Equivalent of CH4	Reduction (tor	ns/yr):			27,563			0
Emissions Avoided by F	ossil Fuel Disp	placement:	Electricity Gene	=	I	Direct Use Pro	-	,
			CO2 (tons/yr)	SO2 (ton	us/yr)	CO2 (tons/yr)	SO2 (tons/y	r)
		Coal:	5,525		35	3,953	3	36
		Fuel Oil:	4,535		29	3,244	1	19
	N	atural Gas:	3,049		0	2,181		0
			E. CONTACT INFOR	RMATION				
		Landfill (Landfill Operator		
Contact Name:								
Contact Ivanie.								
Mailing Address:								
Diama Nami								
Phone Number:				717-34	45-2777			
Fax Number:								
* Itallicized indicates va	lues estimated	by FPA	Dag	ember 5 199	 Ω	State: PA F	Page:	 26

^{*} Itallicized indicates values estimated by EPA.

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			Pioneer Crossin	g LF		Landfill Categor	y: Current
		A. G	ENERAL LANDFILL II	NFORMAT	ION		
Landfill Owner:	F.R. &	S. Incorporated	A	nnual Accept	tance Rate (ton	s):	133,554
Landfill Owner Type:	Private		Y	ear Annual A	Acceptance Rat	e Reported:	1993
Alternative Landfill Na	me: F.R. &	S. Incorporated	D	esign Capaci	ty (tons):		
City:	Birdsbo	oro	A	cres Currentl	y Landfilled (a	icres):	25
County:	Berks		A	verage Depth	n (feet):		
State:	PA		1	994 Waste-ir	n-Place (tons):		1,867,108
Year Open:	1975		19	998 Waste-in	-Place (tons):		2,401,324
Year Closed:	2001						
		I	B. LANDFILL GAS CO	LLECTION			
Estimated Methane Ger	neration (mmsc	f/d):		1.03			
LFG Collection System	Status:		Ope	rational			
Current LFG Collected	(mmscf/d):			0.2			
Collection and Treatme	nt System Requ	uired Under NSF	PS/EG:	No			
			C. LANDFILL GAS UT	ILIZATION	I		
Current Utilization:							
Utilization System	Status:	Operational					
Utilization System	Type:	Reciprocatin	g Engine				
Utilization System	Start Year:	1988					
Electric Utility Pro	ovider(s):						
Natural Gas Provid	der(s):						
Energy Purchaser(s):	Metropolitar	Edison Company				
Capacity:		Electrici	ty Generation Project (MV	W) (OR D	Direct Use Project (mmBtu	/hr)
Estimated Potentia	al Canacitus		<u> </u>	3			32
Current Capacity:	и Сарасиу.			0.3			4
Planned Capacity:				0.3			4
Trainied Capacity.							
Utilities in County:						nsylvania Electric Compa	ny; Pennsy
		D. ENVIR	RONMENTAL BENEFI	TS OF UTII	LIZATION		
			Pote	ential		Current	
Methane Reduction (tor	• .				5,968		771
CO2 Equivalent of CH4	A Reduction (to	ns/yr):			125,322		16,189
Emissions Avoided by I	Fossil Fuel Diss	la a am anti	Electricity Gener	nation Project	n+	Direct Use Proj	aat
Emissions Avoided by I	Ossii Fuei Disp	лисетені.	CO2 (tons/yr)	SO2 (toi			SO2 (tons/yr)
			, , ,	502 (101		•	
		Coal:	25,257		160	17,971	164
		Fuel Oil:	20,730		133	14,750	86
	N	atural Gas:	13,939		0	9,918	0
			E. CONTACT INFOR	MATION			
		Landfill (Owner			Landfill Operator	
Contact Name:							
Mailing Address:	P.O. Box 202			727 R	ed Lane Road		
Phone Number:				610-5	82-2900		
				010-3	02-2700		
Fax Number:							
* Itallicized indicates va	ulues estimated	by EPA.	Dece	ember 5, 199	8	State: PA Pa	ge: 27

			Pottstown 1	LF		Landfill Cate	egory:	Current
		A. GI	ENERAL LANDFILL	INFORMATI	ON	-		
Landfill Owner:	WMI			Annual Accept	ance Rate (to	ns):		760,236
Landfill Owner Type:	Private			Year Annual A				1993
Alternative Landfill Name:	Stowe Po	wer Production		Design Capaci	-	-	4	,502,268
City:	Pottstown	n		Acres Currentl	•	acres):		50
County:	Montgon	nery		Average Depth		•		85
State:	PA	•		1993 Waste-in			ϵ	5,303,270
Year Open:	1973			1998 Waste-in				,104,450
Year Closed:	2001							,
		В	. LANDFILL GAS CO	DLLECTION				
Estimated Methane Generation	on (mmscf/e	d):		3.00				
LFG Collection System Statu	ıs:		O_{I}	erational				
Current LFG Collected (mms	scf/d):			2.2				
Collection and Treatment Sys		red Under NSP	S/EG:	No				
			C. LANDFILL GAS U	FILIZATION				
Current Utilization:								
Utilization System Statu	1S:	Operational						
Utilization System Type		Gas Turbine						
Utilization System Start		1989						
Electric Utility Provider		1707						
Natural Gas Provider(s):								
• •	•	DECO Enorg	y Compony, Donnaylya	sia Donya				
Energy Purchaser(s):		reco energ	y Company; Pennsylvar	на гоже				
Capacity:		Electricit	y Generation Project (M	IW) C	PR I	Direct Use Project (mm	Btu/hr)	
Estimated Potential Cap	pacity:			9				94
Current Capacity:				6.6				46
Planned Capacity:								
Utilities in County:		Central Flect	ric Coop Inc; Duquesne	Light Compa	nv: Lansdale l	Flectric Dent: Metrono	litan Edi	ison C
Culties in County.			ONMENTAL BENEF			Ейсение Вері, місноро		
		D. ENVIR			AZATION			
			Po	tential		Curre	ent	
Methane Reduction (tons/yr):					17,359			8,480
CO2 Equivalent of CH4 Redi	uction (tons	/yr):		3	864,539			178,074
Emissions Avoided by Fossil	Fuel Displ	acement:	Electricity Gen	eration Proiec	t	Direct Use I	Project	
Zimbbionb IIrotucu oy I Ossit	Dispit	acomont.	CO2 (tons/yr)	SO2 (tor	I .	CO2 (tons/yr)	-	(tons/yr)
			· · ·	502 (101)			502	
		Coal:	74,192		469	52,274		476
		Fuel Oil:	60,893		392	42,904		250
	Nai	tural Gas:	40,946		0	28,850		0
			E. CONTACT INFO	RMATION				
		Landfill (Landfill Operator		
Contact Name:								
Mailing Address:								
Phone Number:					25.25.2			
I HOHE INUITION.				215-32	27-2703			
Fax Number:								



			RCC I	_F		Landfill Category	: Candidate		
		A. G	ENERAL LANDFIL	L INFORMAT	ION				
Landfill Owner: Landfill Owner Type:	Private	ce Conservation,			Acceptance 1	(tons): Rate Reported:	439,836 1993		
Alternative Landfill Na City:	ame: Shade Cairnbi	•	Management Facilit		Design Capacity (tons): 4,333,3 Acres Currently Landfilled (acres):				
County:	Somers				Acres Currently Landfilled (acres): 50 Average Depth (feet):				
State:	PA			1993 Waste-in-Place (tons): 1,860,20					
Year Open:	1992			1998 Waste-in		·	4,059,382		
Year Closed:	2012			1))o waste-in	-1 tace (tons	<i>5)</i> .	4,037,302		
		I	B. LANDFILL GAS (COLLECTION					
Estimated Methane Ge	neration (mmsc	f/d):		1.46					
LFG Collection System	n Status:		(Operational					
Current LFG Collected	l (mmscf/d):								
Collection and Treatme	ent System Requ	uired Under NSP	S/EG:	No					
			C. LANDFILL GAS	UTILIZATION	1				
Current Utilization:									
Utilization System	n Status:	Unknown							
Utilization System	n Type:	Unknown							
Utilization System	n Start Year:								
Electric Utility Pr	ovider(s):								
Natural Gas Provi	der(s):								
Energy Purchaser	(s):								
Capacity:	Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)								
Estimated Potenti	al Canacity:		3	5		3 (46		
Current Capacity:				3					
Planned Capacity									
Utilities in County:			•			oversville Elec Dept; PECO En	ergy Com		
		D. ENVIR	RONMENTAL BENE	EFITS OF UTI	LIZATION				
			I	Potential		Current			
Methane Reduction (to	= '				8,420		0		
CO2 Equivalent of CH	4 Reduction (to	ns/yr):			176,812		0		
Emissions Avoided by	Fossil Fuel Dist	olacement:	Electricity Ge	eneration Projec	ct	Direct Use Proje	ct		
•	•		CO2 (tons/yr)	SO2 (to		-	O2 (tons/yr)		
		Coal:	36,307		230	25,355	231		
		Fuel Oil:	29,799		192	20,810	121		
	λ	atural Gas:	20,037		0	13,993	0		
		aiurai Gas.				15,775	0		
		Landfill (E. CONTACT INF	ORMATION		Landfill Operator			
Contact Name:	Brian W Grace	ey, Vice Preside		Brian	W Gracev	, Vice President			
	Dilaii W. Giac	o _j , vice i residei			_	, , ico i iosidoni			
Mailing Address:				R.D.	#1 Box 305				
Phone Number:				2147	54-4587				
				014-/	J4-4J0/				
Fax Number:									
* Itallicized indicates v		1 ED4		Dagambar 5 100		State: DA Dag	20		

^{*} Itallicized indicates values estimated by EPA.

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			Rosencrantz LF		Landfill Category:	Candidate
		A. Gl	ENERAL LANDFILL INFO	RMATION	Lanajui Caiegory.	Candidate
Landfill Owner:	Sexton			ıl Acceptance Ra	to (tons):	
Landfill Owner Type:	Sexion			-	ce Rate Reported:	1998
Alternative Landfill Na	ime:			n Capacity (tons)		1770
City:	Beach	l ake	-	Currently Landfi		
County:	Beach	Lake		ge Depth (feet):	med (acres).	
State:	PA			Waste-in-Place (tons):	
Year Open:	171			Waste-in-Place (t	•	
Year Closed:			1990 (vasie-in-1 iace (i	ons).	
Teal Closed.		F	B. LANDFILL GAS COLLE	CTION		
Entire at a 1 Martin and Ca						
Estimated Methane Ge	-	f/a):				
LFG Collection System						
Current LFG Collected			a. T. a			
Collection and Treatme	ent System Requ			No		
			C. LANDFILL GAS UTILIZ	ZATION		
Current Utilization:						
Utilization System	Status:	Planned				
Utilization System	n Type:	Reciprocatin	g Engine			
Utilization System	n Start Year:					
Electric Utility Pro	ovider(s):					
Natural Gas Provi	der(s):					
Energy Purchaser	(s):	Panalec				
Capacity:		Flectricit	ty Generation Project (MW)	OR	Direct Use Project (mmBtu/hi	•)
	1.0		g denotation i roject (11111)		Direct eserroject (minista/in	
Estimated Potenti	al Capacity:					
Current Capacity:						
Planned Capacity:						
Utilities in County:						
		D. ENVIR	CONMENTAL BENEFITS (F UTILIZATION	ON	
			Potentia		Current	
Methane Reduction (to	ng (h)n).		<i>ғ</i> оленни	ι	Current	
	• .					
CO2 Equivalent of CH	4 Reduction (to	ns/yr):				
Emissions Avoided by I	Fossil Fuel Disp	olacement:	Electricity Generatio	n Project	Direct Use Project	
•	-			SO2 (tons/yr)	- I	2 (tons/yr)
		G 1		, , ,		, ,
		Coal:				
		Fuel Oil:				
	N	atural Gas:				
			E. CONTACT INFORMA	TION		
		Landfill (Landfill Operator	
Contact Name:					-	
Mailing Address:						
Phone Number:						
Fax Number:						
1 (dilloot)						



			South Park Landfill			Landfill Category:	Current
		A. G	ENERAL LANDFILL INFOR	RMATI	ION	, , , , , , , , , , , , , , , , , , ,	
Landfill Owner:	USA Waste		Annual	Accept	ance Rate (tons):		
	Private				cceptance Rate R	enorted:	1998
Alternative Landfill Name:	1111400				ty (tons):	eported.	1,,,0
	South Park				y Landfilled (acre	es):	
County:	Boutil I tilk		Average				
	PA				-Place (tons):		
Year Open:	171				-Place (tons):		
Year Closed:			1990 W	usie-in-	-1 tace (tons).		
Teal Closed.		1	B. LANDFILL GAS COLLEC	TION			
F.C. (IM.) C. C.	(((1)	<u>-</u>	SELLOTILE GILD COLLEGE	711011			
Estimated Methane Generation							
LFG Collection System Status:							
Current LFG Collected (mmscf	· ·						
Collection and Treatment Syste	em Required			No	,		
			C. LANDFILL GAS UTILIZA	ATION			
Current Utilization:							
Utilization System Status:	: (Construction	1				
Utilization System Type:	I	Iigh Btu					
Utilization System Start Y	Year: 1	999					
Electric Utility Provider(s)	s):						
Natural Gas Provider(s):							
Energy Purchaser(s):	E	Equitable Re	esources/Hercules Chem.				
Canacity		Electrici	ty Generation Project (MW)	C	OR Direc	ot Usa Project (mmRtu/hr)	
Capacity:		Electrici	ty Generation Project (MW)		Direction of the control of the cont	ct Use Project (mmBtu/hr)	
Estimated Potential Capac	city:						
Current Capacity:							
Planned Capacity:							
Utilities in County:					1		
		D. ENVII	RONMENTAL BENEFITS O	F UTII	LIZATION		
			Potential			Current	
Methane Reduction (tons/yr):			1 Otential			Current	
CO2 Equivalent of CH4 Reduction	otion (tonghy	١.					
CO2 Equivalent of CH4 Reduct	iion (ions/yr). 					
Emissions Avoided by Fossil Fi	uel Displace	ment:	Electricity Generation	Projec	t	Direct Use Project	
•	•			O2 (ton		CO2 (tons/yr) SO2	(tons/yr)
		C 1	, , ,	,			, , ,
		Coal:					
	$F\iota$	ıel Oil:					
	Natura	ıl Gas:					
			E. CONTACT INFORMAT	TON			
		Landfill (ION	La	ndfill Operator	
Contact Name:		Landini	Swiici		La	пани Орегатог	
Contact Name:							
Mailing Address:							
Phone Number:							
Fax Number:							



			Southern Alleg	henies I	F	Landfill (Category:	Candidate	
		A. G	ENERAL LANDFIL			Lunajiii	suregory.	Candidate	
Landfill Owner:						(tons):		441,059	
Landfill Owner Type:	Private	Annual Acceptance Rate (tons): Veer Appeal Acceptance Para Pane					1993		
Alternative Landfill Na		n Allaghanias F	Disposal Service, Inc.	Year Annual Acceptance Rate Reported:				3,508,668	
City:	Davids	-	rsposar service, inc.	Design Capacity (tons):				59	
City. County:	Somers			Acres Currently Landfilled (acres):				39	
State:	PA	Et		Average Depth (feet): 1993 Waste-in-Place (tons):				2,644,903	
Year Open:	IA				Waste-in-Place (to	•		4,850,198	
Year Closed:	1999			1990 1	vasie-in-1 tace (tor	13).		4,050,170	
Tear Crosect.	1,,,,]	B. LANDFILL GAS	COLLE	CTION				
Estimated Methane Ge	neration (mmsc	f/d):		0	0.80				
LFG Collection System		,,,-		Operatio					
Current LFG Collected				- F					
Collection and Treatme		uired Under NSI	PS/EG:		No				
	<u> </u>		C. LANDFILL GAS	UTILIZ	ZATION				
Current Utilization:									
Utilization System	n Status:	Planned							
Utilization System		Leachate Ev	aporation						
Utilization System	• •	2000	•						
Electric Utility Pr	Electric Utility Provider(s):								
Natural Gas Provi									
Energy Purchaser	* *								
Capacity:		Electrici	ty Generation Project	(MW)	OR	Direct Use Project (mmBtu/hr	:)	
Estimated Potenti	al Capacity:				3			25	
Current Capacity:									
Planned Capacity									
Utilities in County:		Bedford Rui	al Elec Coop Inc; Ber	lin Muni	Light System; Ho	oversville Elec Dept; P	ECO Ener	rgy Com	
•			RONMENTAL BENI						
		2,22,1,2		Potentia			urrent		
Methane Reduction (to	mchr).		4	гошни	4,612		urrent	0	
CO2 Equivalent of CH	-	achr).			96,858			0	
CO2 Equivalent of CH	4 Reduction (tot	715/ yr).			90,636				
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generation Project			Direct U	Direct Use Project		
			CO2 (tons/yr)		SO2 (tons/yr)	CO2 (tons/yr)	SO	2 (tons/yr)	
		Coal:	19,732	2	125	13,889		126	
		Fuel Oil:	16,195	5	104	11,400		66	
	N	atural Gas:	10,890)	0	7,665		0	
			E. CONTACT INF						
		Landfill		OKWIA	HON	Landfill Operator			
Contact Name:	Terry Stein					1			
	-								
Mailing Address:	843 Miller Picl	king Road							
DI NY									
Phone Number:	814-479-2537				814-479-2537				
Fax Number:									

^{*} Itallicized indicates values estimated by EPA. December 5, 1998 State: PA Page: 32



		Tullytow	n LF		Landfill Cat	egory: Current
	A. G	ENERAL LANDFIL		ATION	<u> </u>	
Landfill Owner:	WMI		Annual Acc	eptance Rate ((tons):	1,184,860
Landfill Owner Type:	Private		Year Annua	l Acceptance	Rate Reported:	1993
	Tullytown Resource Re	covery Facility	Design Cap	acity (tons):		9,648,000
	Tullytown			ntly Landfille	d (acres):	248
	Bucks		Average De	-		
-	PA		_	e-in-Place (ton	as):	11,485,092
Year Open:	1988			-in-Place (tons	·	13,854,812
•	1995			(1111	-,-	
]	B. LANDFILL GAS	COLLECTIO	ON		
Estimated Methane Generation	(mmscf/d):		3.96			
LFG Collection System Status:			Operational			
Current LFG Collected (mmscf	/d):					
Collection and Treatment Syste	m Required Under NSI	PS/EG:	No			
		C. LANDFILL GAS	UTILIZATIO	ON		
Current Utilization:						
Utilization System Status:	Operational					
Utilization System Type:	Steam Turbi	ne				
Utilization System Start Y	ear: 1997					
Electric Utility Provider(s)):					
Natural Gas Provider(s):						
Energy Purchaser(s):	PECO					
Capacity:	Flectrici	ty Generation Project	(MW)	OR	Direct Use Project (mn	aRtu/hr)
		ty Generation Project			Direct Osc Froject (IIII)	<u> </u>
Estimated Potential Capac	city:		12			124
Current Capacity:			11.0			
Planned Capacity:						
Utilities in County:	PECO Energ	gy Company; Pennsyl	vania Power &	Light Co; Pe	rkasie Borough Electric;	Philadelphia E
	D. ENVII	RONMENTAL BEN	EFITS OF U	FILIZATION	I	
			Potential		Curre	ent
Methane Reduction (tons/yr):				22,905		0
CO2 Equivalent of CH4 Reduct	tion (tons/yr):			481,005		0
Emissions Avoided by Fossil Fi	ual Displacement:	Flactricity G	onoration Pro	iact	Direct Use	Project
Emissions Avoided by Fossii Fi	иет Діѕрійсетені.	Electricity Generation Project CO2 (tons/yr) SO2 (tons/yr) C			CO2 (tons/yr)	SO2 (tons/yr)
				- '		
	Coal:	97,870)	619	68,975	628
	Fuel Oil:	80,327	7	517	56,612	330
	Natural Gas:	54,013	3	0	38,067	0
		E. CONTACT INF	ORMATION	J		
	Landfill	Owner			Landfill Operator	
Contact Name:						
Mailing Address:						
Phone Number:			215	5-943-8114		
Fax Number:						
* Itallicized indicates values est	imated by EPA.]	December 5, 1	998	State: PA	Page: 33

^{*} Itallicized indicates values estimated by EPA. December 5, 1998



			Valley L	F		Landfill Cat	egory: Current
		A. G l	ENERAL LANDFILL	INFORMAT	ION		
Landfill Owner:	Mid-Aı	merican Waste		Annual Accep	tance Rate	(tons):	374,580
Landfill Owner Type:	Private			Year Annual Acceptance Rate Reported:			1993
Alternative Landfill N	ame:			Design Capac	ity (tons):		22,450,000
City:	Murrys	ville		Acres Current	ly Landfille	ed (acres):	89
County:	Westme	oreland		Average Dept	h (feet):		
State:	PA			1993 Waste-i	n-Place (tor	ns):	1,635,740
Year Open:	1990			1998 Waste-in	-Place (ton	s):	3,508,640
Year Closed:	2010						
		I	B. LANDFILL GAS CO	OLLECTION	I		
Estimated Methane Generation (mmscf/d):				1.32			
LFG Collection System Status:							
Current LFG Collected	d (mmscf/d):						
Collection and Treatm	ent System Requ			No			
			C. LANDFILL GAS U	TILIZATION	N .		
Current Utilization:							
Utilization Syster	n Status:	Construction					
Utilization Syster		High Btu					
Utilization Syster	n Start Year:	1999					
Electric Utility Pr	rovider(s):						
Natural Gas Prov	` '						
Energy Purchaser	r(s):	University of	f Pittsburgh, Duq. Ligh	t, Nextec			
Capacity:		Electrici	y Generation Project (M	ИW) (OR	Direct Use Project (mm	aBtu/hr)
Estimated Potenti	ial Capacity:			4			41
Current Capacity:							
Planned Capacity							
Utilities in County:		Duquesne Li	ght Company; PECO E	nergy Compar	ıy; Pennsyl	vania Electric Company; l	Pennsylvania P
		D. ENVIR	CONMENTAL BENEF	FITS OF UTI	LIZATION	<u> </u>	
				otential		Curre	ent
Methane Reduction (to	ons/vr):				7,605		0
CO2 Equivalent of CH		ns/vr):			159,709		0
		···· 2 /·					
Emissions Avoided by	Fossil Fuel Disp	olacement:	Electricity Generation Project		Direct Use Project		
			CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	32,360		205	22,902	208
		Fuel Oil:	26,560		171	18,797	110
	N	atural Gas:	17,859		0	12,639	0
			E. CONTACT INFO	RMATION			
		Landfill (Owner			Landfill Operator	
Contact Name:	Dennis W. Ma	rcehtti, Vice Pres	sident				
Mailing Address:	3237 Gulf Tow	ver					
maning Addiess.	707 Grant Stre						
Phone Number:	707 Grant Sire	Ci .		410.5	111 7116		
				412-7	44-7446		
Fax Number:							
* Itallicized indicates v	alues estimated	by EPA.	De	ecember 5, 199	98	State: PA	Page: 34

^{*} Itallicized indicates values estimated by EPA.

			Western Berks Refuse	Authority LF		Landfill Categor	y: Candidate
		A. GE	NERAL LANDFILL I	NFORMAT	ION		
Landfill Owner:	Wester	n Berks Refuse A	uthority A	Annual Accept	tance Rate (t	ons):	37,742
Landfill Owner Type:			Year Annual Acceptance Rate Report				1993
Alternative Landfill N	lame:		Design Capacity (tons):			•	360,000
City:	Birdsbo	oro	Acres Currently Landfilled (acres):			(acres):	53.5
County:	Berks			verage Deptl	-	. ,	
State:	PA			Vaste-in-Place			943,550
Year Open:	1972			998 Waste-in):	1,019,034
Year Closed:	1999		-	,, o ,, abre in	T teree (rons)		1,015,00
		В.	LANDFILL GAS CO	LLECTION			
Estimated Methane G	eneration (mmsc	rf/d):		0.68			
LFG Collection System		<i>y, cu)</i> .		0.00			
Current LFG Collecte							
Collection and Treatm		uired Under NSPS	S/FG·	No			
Concetion and Treath	ient Bystem Requ		. LANDFILL GAS UT				
Current Utilization:			· Lin (DI IEE Gris e I				
	C	TT 1					
Utilization System		Unknown					
Utilization System		Unknown					
Utilization System							
Electric Utility Provider(s):							
Natural Gas Prov	* *						
Energy Purchase	r(s):						
Capacity:		Generation Project (M	W) ()R	Direct Use Project (mmBtu	/hr)	
Estimated Potent	ial Capacity:			2			21
Current Capacity	:						
Planned Capacity	/ :						
Hailiai in Country		Vistata son Mo	: I 4 % D M4	-1:4 T-1:	C D		
Utilities in County:			<u> </u>			ennsylvania Electric Compa	ny; Pennsy
		D. ENVIRO	ONMENTAL BENEF	ITS OF UTII	LIZATION		
			Por	ential		Current	
Methane Reduction (to	ons/yr):			3,924			0
CO2 Equivalent of CF	H4 Reduction (to	ns/yr):		82,396			0
		_					
Emissions Avoided by	Fossil Fuel Disp	placement:	Electricity Gene	=		Direct Use Proj	
			CO2 (tons/yr)	SO2 (tor	is/yr)	CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	16,575		105	11,815	108
		Fuel Oil:	13,604		88	9,698	57
						,	
	N	latural Gas:	9,147		0	6,521	0
			E. CONTACT INFOI	RMATION		10110	
		Landfill O	wner			Landfill Operator	
Contact Name:							
Mailing Address:	455 Poplar Nec	ck Road		455 P	oplar Neck F	Road	
					•		
Phone Number:	(10.275.1515			(10.0	75 1516		
I HORE INUITION.	610-375-1516			610-3	75-1516		
Fax Number:							



		Westmoreland County La	ndfill	Landfill Category:	Current
	A. G	ENERAL LANDFILL INFO		, , , , , , , , , , , , , , , , , , ,	
Landfill Owner Type: Publi Alternative Landfill Name:	moreland County c	Year A Design	e (tons): e Rate Reported: ed (acres):	1998	
County: State: PA Year Open: Year Closed:	iourg	Avera 1998 I	ons):		
	J	B. LANDFILL GAS COLLE	CTION		
Estimated Methane Generation (mm. LFG Collection System Status: Current LFG Collected (mmscf/d): Collection and Treatment System Re	equired Under NSF	PS/EG: C. LANDFILL GAS UTILIZ	No VATION		
		C. LANDFILL GAS UTILIZ	ATION		
Current Utilization: Utilization System Status: Utilization System Type: Utilization System Start Year: Electric Utility Provider(s): Natural Gas Provider(s): Energy Purchaser(s):	Construction Direct Therm 1999 Dyna-Nobel	nal			
Capacity:	Electrici	ty Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)	
Estimated Potential Capacity: Current Capacity: Planned Capacity:					
Utilities in County:					
<u> </u>	D. ENVIE	RONMENTAL BENEFITS (OF UTILIZATIO	N	
	D. L. VII	Potentia		Current	
Methane Reduction (tons/yr): CO2 Equivalent of CH4 Reduction (tons/yr):	1 очений	ı	Current	
Emissions Avoided by Fossil Fuel De		Electricity Generatio CO2 (tons/yr)	n Project SO2 (tons/yr)	Direct Use Project CO2 (tons/yr) SO2	(tons/yr)
	Coal: Fuel Oil: Natural Gas:				
		E. CONTACT INFORMA	TION		
	Landfill	Owner		Landfill Operator	
Contact Name: Mailing Address:					
Phone Number: Fax Number:			412-834-6500		



			Y&S SLF			Landfill Cat	egory: Candidate
		A. G	ENERAL LANDFILL I	NFORMAT	ION		
Landfill Owner:	WMI		A	annual Accep	tance Rate	(tons):	230,671
Landfill Owner Type:	Private		Year Annual Acceptance Rate Reported:			Rate Reported:	1993
Alternative Landfill Na	me:		D	esign Capaci	ty (tons):		5,908,219
City:	Scottda	le	A	cres Currentl	ly Landfille	ed (acres):	18
County:	Westmo	oreland		verage Depth			
State:	PA		1	993 Waste-ii	n-Place (tor	ns):	1,076,778
Year Open:	1985		1998 Waste-in-Place (tons):				
Year Closed:	2002	T	LANDELL CACCO	LIECTION	•		
			B. LANDFILL GAS CO				
Estimated Methane Generation (mmscf/d):				0.99			
	LFG Collection System Status:			erational			
Current LFG Collected			M 75 G	3.7			
Collection and Treatme	nt System Requ		PS/EG: C . LANDFILL GAS U T	No	J		
C TITLE C			C. LANDFILL GAS UI	ILIZATION			
Current Utilization:	G	TT 1					
Utilization System		Unknown					
Utilization System	• •	Unknown					
Utilization System							
Electric Utility Pro							
Natural Gas Provid	* *						
Energy Purchaser(s):						
Capacity:		Electrici	ty Generation Project (M	W) (OR	Direct Use Project (mn	nBtu/hr)
Estimated Potentia	al Capacity:			3			31
Current Capacity:							
Planned Capacity:							
Utilities in County:		Duquesne Li	ight Company; PECO En	ergy Compan	ıy; Pennsyl	vania Electric Company; 1	Pennsylvania P
		D. ENVIR	RONMENTAL BENEFI	TS OF UTII	LIZATION	1	
			Pot	ential		Curre	ent
Methane Reduction (tor	ns/yr):				5,715		0
CO2 Equivalent of CH4	4 Reduction (tor	ns/yr):			120,005		0
Endada Andi I di I	Z:1 E1 D:	.1	El ani de Cara		-4	Dinas II-	D:
Emissions Avoided by I	ossii Fuei Disp	olacement:	Electricity Generation Project CO2 (tons/yr) SO2 (tons/yr)		Direct Use	-	
			CO2 (tons/yr)	302 (101		CO2 (tons/yr)	SO2 (tons/yr)
		Coal:	24,468		155	17,209	157
		Fuel Oil:	20,082		129	14,124	82
	N	atural Gas:	13,503		0	9,497	0
			E. CONTACT INFOR	RMATION			
		Landfill (Owner			Landfill Operator	
Contact Name:	John Rellas			John 1	Rellas		
Mailing Address:				RD#1	Landfill R	oad	
Phone Number:				412-8	87-9400		
Fax Number:							
* Itallicized indicates va	alues estimated	by EPA.	Dec	ember 5, 199	8	State: PA	Page: 37

^{*} Itallicized indicates values estimated by EPA.

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			York Count	y SLF		Landfill Categor	y: Candidate	
		A. G	ENERAL LANDFILI	L INFORMAT	ION			
Landfill Owner:	York C	ounty Solid Was	te Authority	Annual Accep	tance Rate (to	ons):	90,689	
Landfill Owner Type:				Year Annual Acceptance Rate Reported:			1993	
Alternative Landfill Name:	York C	ounty Solid Was	te and Refuse Author	Design Capacity (tons):			851,315	
City:	York			Acres Currently Landfilled (acres):				
County:	York			Average Deptl	h (feet):			
State:	PA			1993 Waste-in	n-Place (tons)):	754,137	
Year Open:	1974			1998 Waste-in	-Place (tons)	:	1,197,381	
Year Closed:	1997							
		I	B. LANDFILL GAS (COLLECTION				
Estimated Methane Generat	ion (mmsc	f/d):		0.72				
LFG Collection System Stat	us:							
Current LFG Collected (mm	scf/d):							
Collection and Treatment Sy	stem Requ	uired Under NSF	PS/EG:	No				
			C. LANDFILL GAS U	UTILIZATION	N .			
Current Utilization:								
Utilization System Stat	us:	Unknown						
Utilization System Typ	e:	Unknown						
Utilization System Star								
Electric Utility Provide								
Natural Gas Provider(s)								
Energy Purchaser(s):								
Capacity:		Electrici	ty Generation Project (MW) (OR T	Direct Use Project (mmBtu/	hr)	
Estimated Potential Ca	pacity:			2			23	
Current Capacity:								
Planned Capacity:								
Utilities in County:		Adams Elect	ric Cooperative Inc; D	uquesne Light (Company; Go	oldsboro Borough Utility De	ot; Lewisb	
		D. ENVIR	RONMENTAL BENE	FITS OF UTI	LIZATION			
				Potential		Current		
 Methane Reduction (tons/yr)).		1	otentiai	4,187	Current	0	
CO2 Equivalent of CH4 Red		ns/vr)·		87,933			0	
CO2 Equivalent of CII+ Rea	uction (to	113/ y1).			07,733			
Emissions Avoided by Fossil	l Fuel Disp	olacement:	Electricity Ge	neration Projec	ct	Direct Use Proje	ect	
			CO2 (tons/yr)	SO2 (to	ns/yr)	CO2 (tons/yr)	SO2 (tons/yr)	
		Coal:	18,153		115	12,610	115	
		Fuel Oil:	14,899		96	10,349	60	
	3.7	atural Gas:						
		aturai Gas:	10,019		0	6,959	0	
		I 1011	E. CONTACT INFO	ORMATION		I 1611 O		
G		Landfill (Jwner			Landfill Operator		
Contact Name:				Willia	am A. Ehrma	n, Executive Director		
Mailing Address:								
Phone Number								
Phone Number:				717-8	345-1066			
Fax Number:								

* Itallicized indicates values estimated by EPA.

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